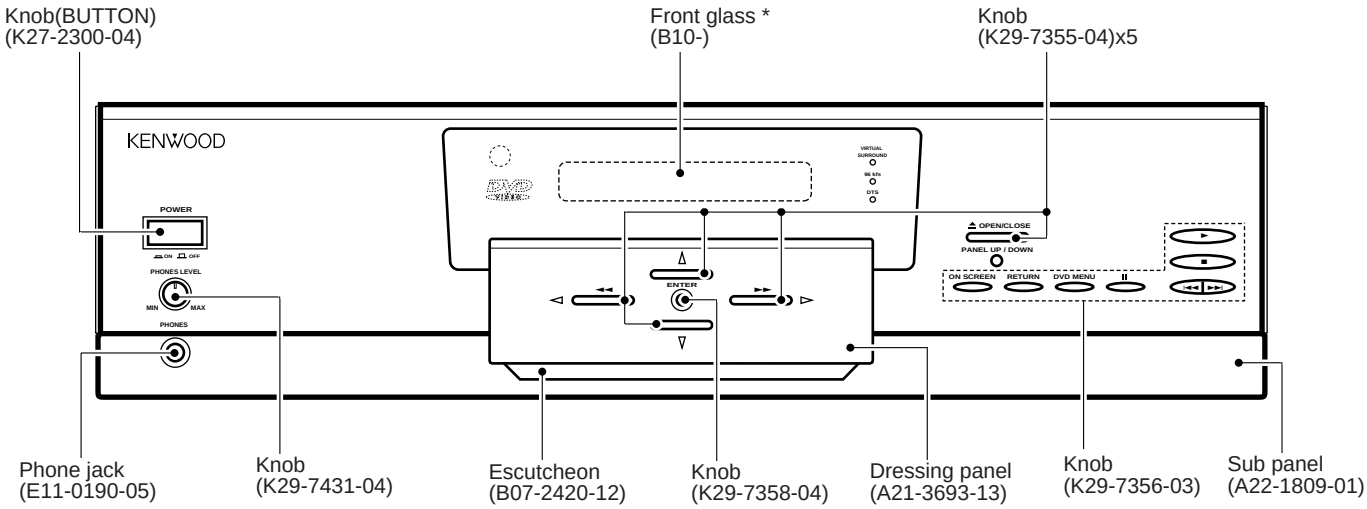
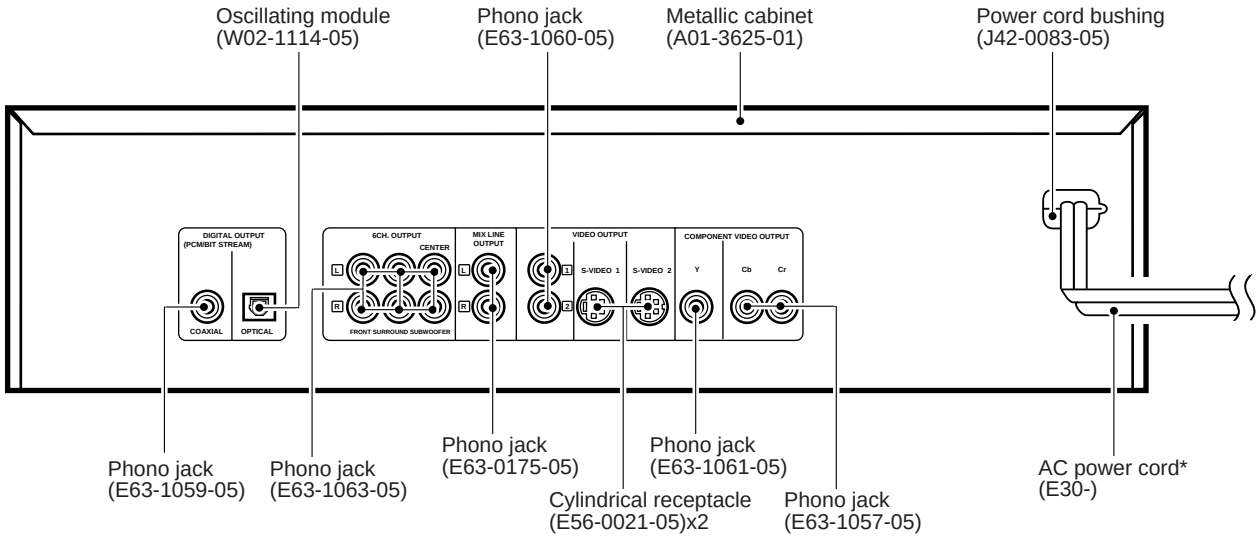
CD/VIDEO-CD/DVD PLAYER

DV-203/2070
DVF-5010/9010/K7010
SERVICE MANUAL

KENWOOD

© 1998-8/B51-5456-00 (K/K) 3486





Illust. is DVF-9010.

*** Refer to parts list on page 52.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

NOTE : Please replace the mechanism PCB (W02-266x-05) with new one, if it is malfunction.

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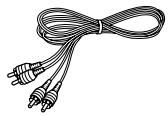
Accessories

Audio cord (Red, White) ..... (3)
(E30-0505-05)

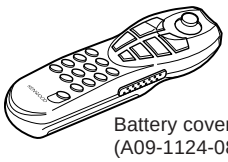


S-VIDEO cord ..... (1)
(E30-2725-05)

Video cord (Yellow) ..... (1)
(E30-1427-05)

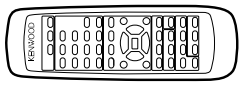
Optical fiber cable ..... (1)
(B19-1529-05)

Remote control unit ..... (1)
(A70-1227-05) :
DV-2070/DVF-9010



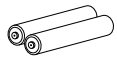
Battery cover
(A09-1124-08)

Remote control unit ..... (1)
(A70-1229-05) : DVF-K7010
(A70-1230-05) : DV-203/DVF-5010

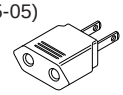


Battery cover (A09-1105-05)

Batteries (R6/AA) ..... (2)



AC plug adaptor ..... (1)
(E03-0115-05)



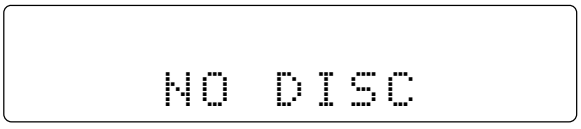
Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Cautions

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Set the POWER key to ON without loading a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Set the POWER key to OFF.



Beware of condensation

When the difference between the internal temperature of the unit and external atmosphere is large, dew (mist) may be produced on the internal parts of the unit. In such a case, turn the unit ON and leave it for a few hours until the condensation has dried up.

Be especially careful in the following conditions:
When the unit is brought into a place where there is a large difference in temperature between the previous location, when the humidity of the listening room is high, etc.

Operation to reset

The microprocessor may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microprocessor and return it to normal condition.

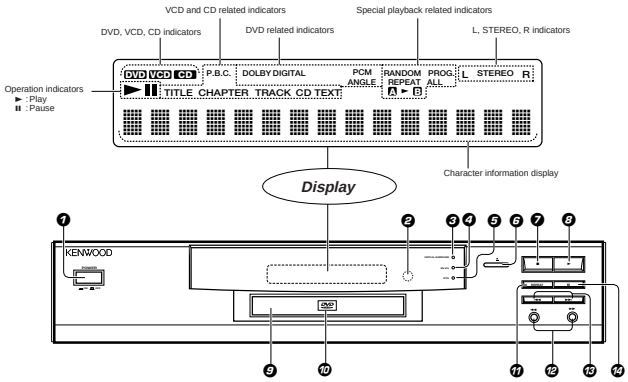
While holding the ■ key, press and hold the ❚❚ key until **"INITIAL OK!"** appears.

- Please note that resetting the microprocessor clears the contents stored in, it returns the microprocessor to the condition when it left the factory.

CONTROLS

Control and Indication

Display / Main unit (DVF-5010)

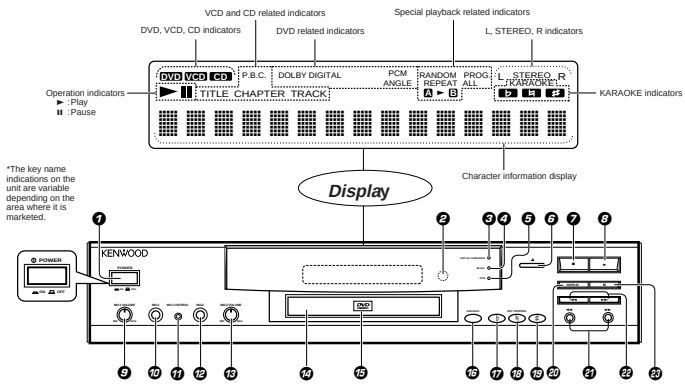


❶ ***POWER key***
❷ ***Remote control sensor***
❸ ***VIRTUAL SURROUND indicator***
Lights during playback of an AC-3 5.1-channel disc by setting virtual surround.
❹ ***96 kfs indicator***
Lights during playback of a DVD LPCM disc with 96 kfs sampling frequency.
❺ ***DTS indicator***
Lights during playback of a DVD DTS disc.
❻ ***Open/close (≜) key***
❼ ***Stop (■) key***
❽ ***Play (►) key***
❾ ***Tray panel***
❿ ***DVD badge***
⓫ ***REPEAT key***
⓬ ***Manual search (◄◄, ►►) keys***
⓭ ***Skip down (I◄◄) / up (►►I) keys***
⓮ ***Pause (II) key***

Standby mode of the unit

While the POWER key is set to ON, this unit can be put to the standby mode using the graphical remote control unit provided with a KENWOOD AUDIO VIDEO SURROUND RECEIVER. When the STANDBY indicator of this unit is lit, a small amount of current flows in it to back up the internal memory. This status is referred to as the standby mode.

Display / Main unit (DVF-K7010)

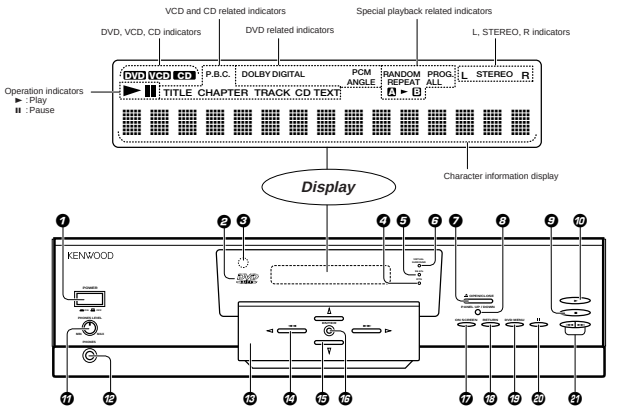


❶ **POWER (⏻ POWER) key**
❷ **Remote control sensor**
❸ **VIRTUAL SURROUND indicator**
Lights during playback of an AC-3 5.1-channel disc by setting virtual surround.
❹ **96 kfs indicator**
Lights during playback of a DVD LPCM disc with 96 kfs sampling frequency.
❺ **DTS indicator**
Lights during playback of a DVD DTS disc.
❻ **Open/close (≜) key**
❼ **Stop (■) key**
❽ **Play (►) key**
❾ **MIC 1 VOLUME control**
❿ **MIC 1 jack**
⓫ **MIC CONTROL jack**
⓬ **MIC 2 jack**
⓭ **MIC 2 VOLUME control**
⓮ **Tray panel**
⓯ **DVD badge**
⓰ **KARAOKE key**
⓱ **Flat (♭) key**
⓲ **Natural (♮) key**
⓳ **Sharp (♯) key**
⓴ **REPEAT key**
㉑ **Manual search (◄◄, ►►) keys**
㉒ **Skip down (I◄◄) / up (►►I) keys**
㉓ **Pause (II) key**

Standby mode of the unit

While the POWER key is set to ON, this unit can be put to the standby mode using the graphical remote control unit provided with a KENWOOD AUDIO VIDEO SURROUND RECEIVER. When the STANDBY indicator of this unit is lit, a small amount of current flows in it to back up the internal memory. This status is referred to as the standby mode.

Display / Main unit (DVF-9010)



❶ ***POWER key***
❷ ***DVD indicator***
Lights up when a DVD disc is loaded.
❸ ***Remote control sensor***
❹ ***DTS indicator***
Lights during playback of a DTS-encoded DVD disc.
❺ ***96 kfs indicator***
Lights during playback of a DVD LPCM disc with 96 kfs sampling frequency.
❻ ***VIRTUAL SURROUND indicator***
Lights during playback of an AC-3 5.1-channel disc by setting virtual surround.
❼ ***OPEN/CLOSE (≜) key***
❽ ***PANEL UP/DOWN key***
❾ ***Stop (■) key***
❿ ***Play (►) key***
⓫ ***PHONES LEVEL control***
⓬ ***PHONES jack***
⓭ ***Tray panel***
⓮ ***Manual search (◄◄, ►►) keys***
⓯ ***Cursor (△, ▽, ◁, ▷) keys***
⓰ ***ENTER key***
⓱ ***ON SCREEN key***
⓲ ***RETURN key***
⓳ ***DVD MENU key***
⓴ ***Pause (II) key***
㉑ ***Skip down (I◄◄) / up (►►I) keys***

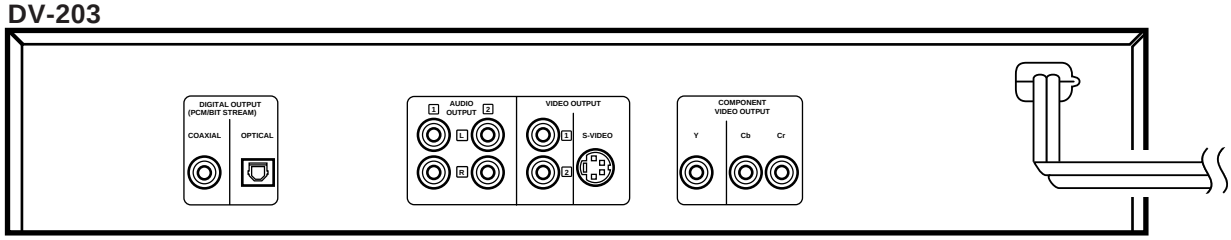
Standby mode of the unit

While the POWER key is set to ON, this unit can be put to the standby mode using the graphical remote control unit provided with a KENWOOD AUDIO VIDEO SURROUND RECEIVER. When the STANDBY indicator of this unit is lit, a small amount of current flows in it to back up the internal memory. This status is referred to as the standby mode.

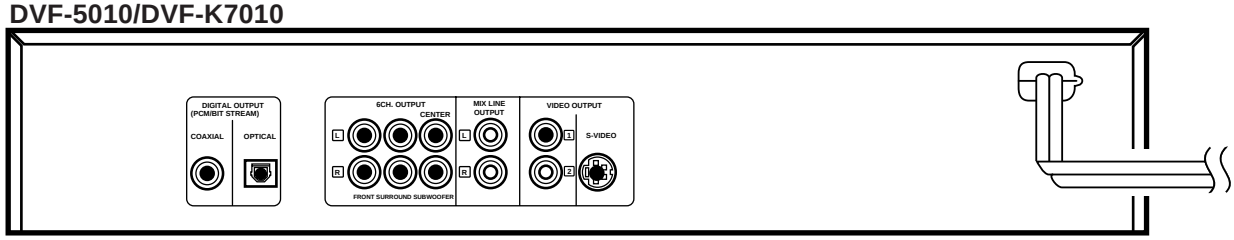
CONTROLS

REAR PANEL

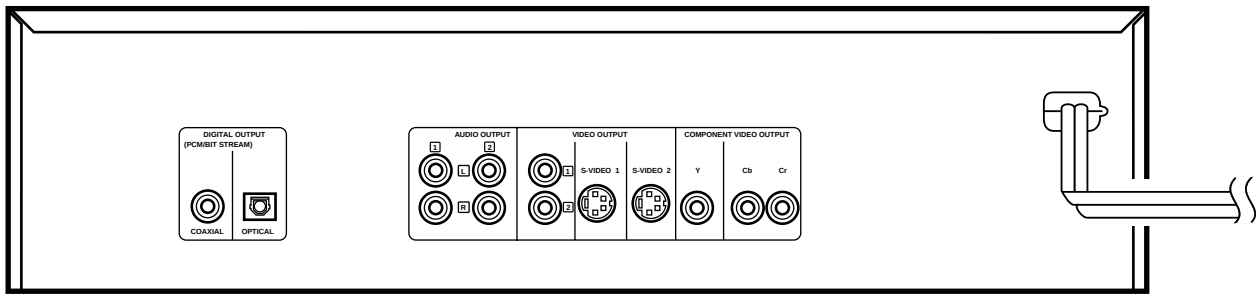
DV-203



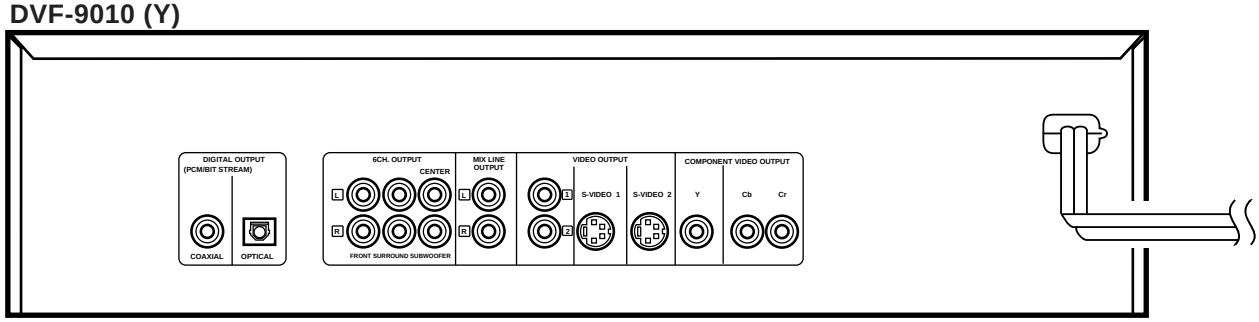
DVF-5010/DVF-K7010



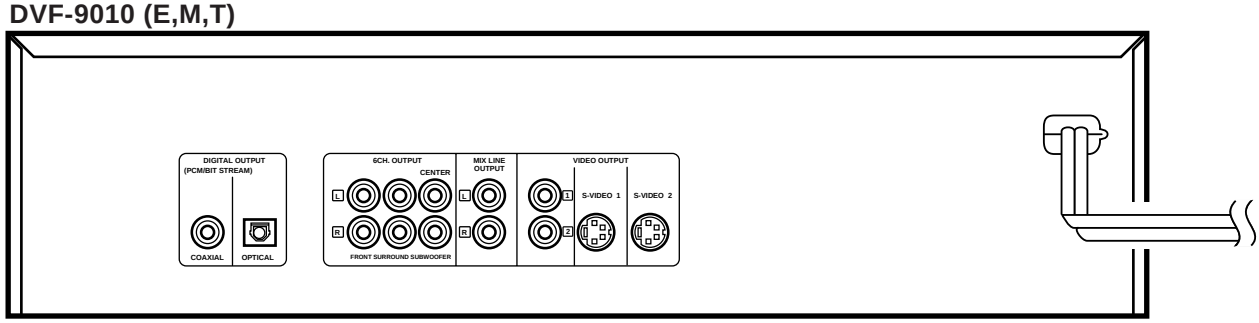
DV-2070



DVF-9010 (Y)

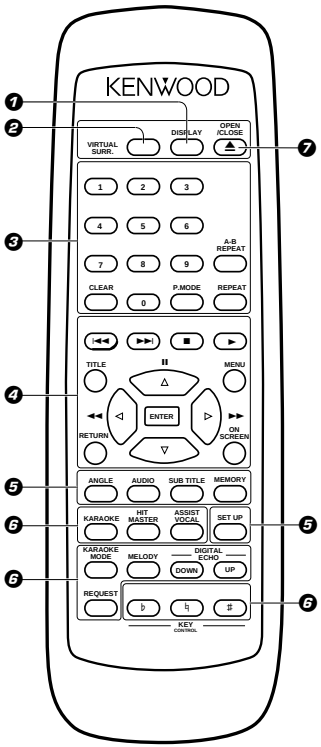


DVF-9010 (E,M,T)



Remote control unit

The remote control unit incorporates the basic operation keys as well as a variety of applied operation keys so that it can be used in a wide range of purposes.
Use care to store the remote control unit in a safe place so as not to lose it.



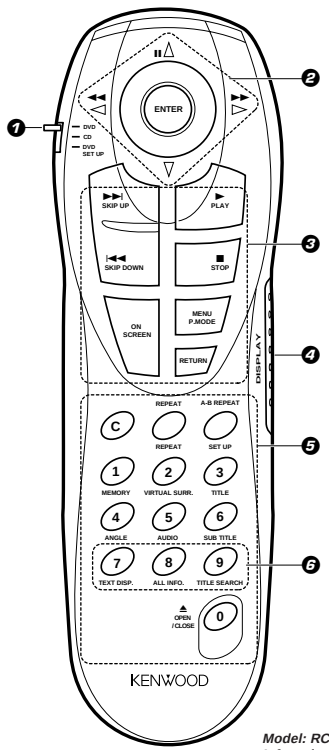
Model: RC-D0505
Infrared ray system

❶ DISPLAY key
❷ VIRTUAL SURR. key
❸ CD, VCD and DVD related control keys
Numeric (0 to 9) keys
CLEAR key
P.MODE key
A-B REPEAT key
REPEAT key
❹ CD, VCD and DVD related control keys
Skip down (I◄◄) and Skip up (►►I) keys
Stop (■) key
Play (►) key
Cursor (△, ▽, ◁, ▷) keys
ENTER key
Pause (II) key
Forward and reverse search (◄◄, ►►) keys
TITLE key
MENU key
RETURN key
ON SCREEN key
❺ TV monitor related control keys
ANGLE key
AUDIO key
SUB TITLE key
MEMORY key
SET UP key
❻ Karaoke-related control keys
KARAOKE key
HIT MASTER key
ASSIST VOCAL key
KARAOKE MODE key
MELODY key
DIGITAL ECHO (DOWN/UP) keys
REQUEST key
Flat (♭) key
Natural (♮) key)
Sharp (♯) key
❼ OPEN/CLOSE (≜) key

Remote control unit

The remote control unit incorporates the basic operation keys as well as a variety of applied operation keys so that it can be used in a wide range of purposes.
Use care to store the remote control unit in a safe place so as not to lose it.

**** The proper positioning of the mode switch (DVD, CD, DVD SET UP) is variable depending on the control and play modes. Set the mode switch according to the desired control and play modes. Information inside ( ) below indicates the mode switch setting position to implement the function in question.***



Model: RC-D0705
Infrared ray system

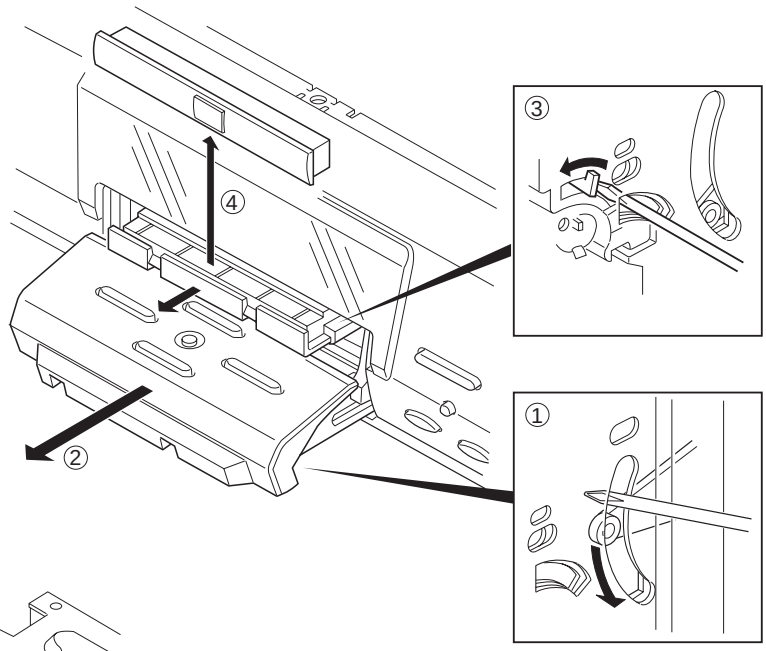
❶ Remote control mode switch
DVD
CD
DVD SET UP
❷ Joystick/ENTER/Pause/forward search/reverse search keys
(DVD, CD, DVD SET UP)
Joystick (△, ▽, ◁, ▷) keys
ENTER key
Pause (II) key
Forward and reverse search (◄◄, ►►) keys
❸ CD, VCD and DVD related control keys
SKIP DOWN (I◄◄) and SKIP UP (►►I) keys
(DVD, CD, DVD SET UP)
ON SCREEN key (DVD, CD, DVD SET UP)
PLAY (►) key (DVD, CD, DVD SET UP)
STOP (■) key (DVD, CD, DVD SET UP)
MENU key (DVD, DVD SET UP)/P.MODE key (CD)
RETURN key (DVD, CD, DVD SET UP)
❹ DISPLAY key (DVD, CD, DVD SET UP)
❺ TV monitor related control keys
Numeric (0 to 9) keys (CD)
C (Clear) key (DVD, CD, DVD SET UP)
REPEAT key (DVD, CD, DVD SET UP)
A-B REPEAT key (CD)
SET UP key (DVD SET UP)
MEMORY key (DVD)
VIRTUAL SURR. key (DVD)
TITLE key (DVD)
ANGLE key (DVD)
AUDIO key (DVD)
SUB TITLE key (DVD)
OPEN/CLOSE (≜) key (DVD)
❻ CD-TEXT related control keys
TEXT DISP. key (DVD)
ALL INFO. key (DVD)
TITLE SEARCH key (DVD)

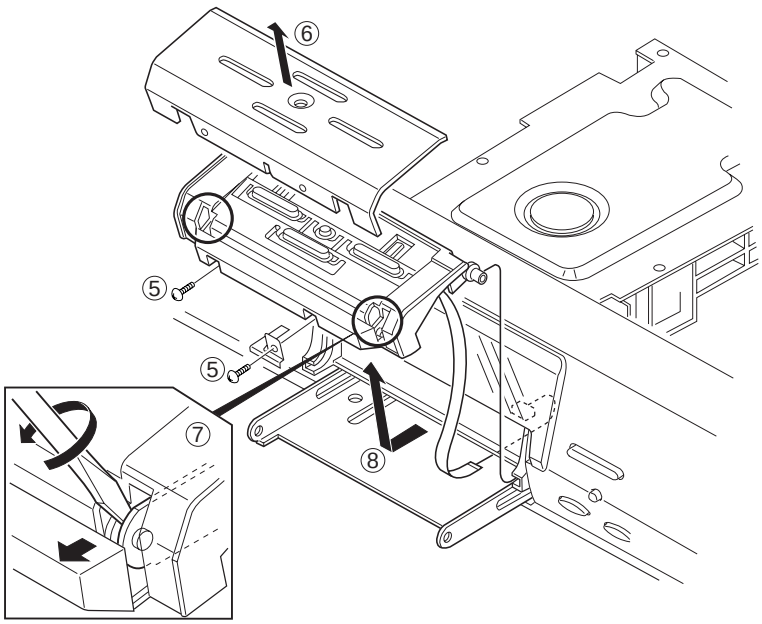
DISASSEMBLY FOR REPAIR (DV-2070, DVF-9010)

1. How to open the door panel and the tray if not comes out.

(1) See the bottom of a set, then move the arm of the door mechanism by a screw driver (①) and pull out the door panel (②).

(2) Move the rotary cam of the DVD mechanism by a screw driver (③), then pull out the tray and remove the tray panel (④).





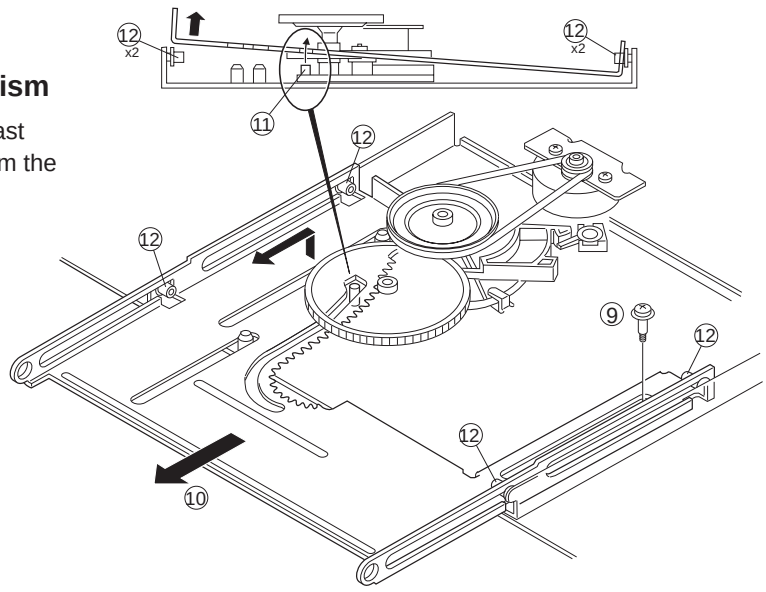
2. How to remove the door panel.

(1) Remove 2 screws (⑤), then remove the door panel (⑥).

(2) Remove 2 bosses (⑦), then remove the door escutcheon (⑧).

3. How to remove the moving door mechanism

1. Remove the 1 screw (⑨), Then pull the slider (⑩) till last
2. While raise the slider of left side, remove the slider from the bosses (⑪,⑫)

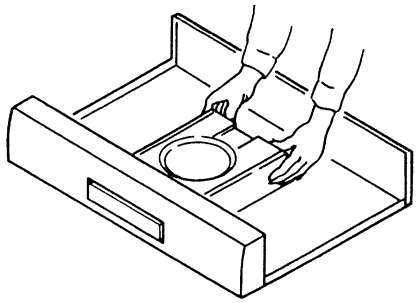


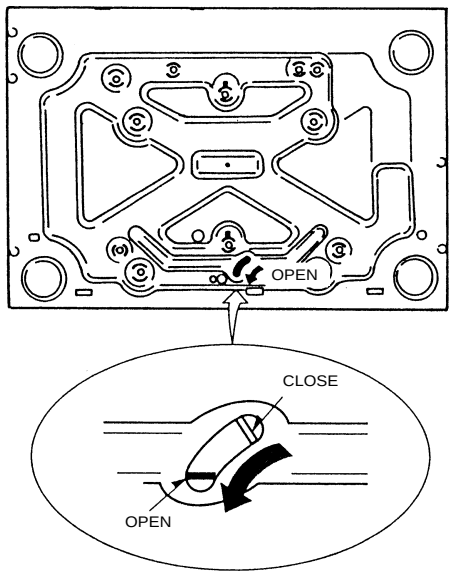
DISASSEMBLY FOR REPAIR

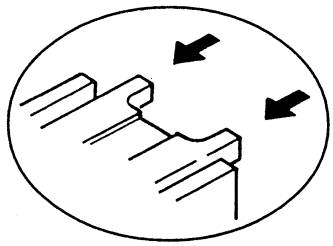
How to Disassemble mechanism.

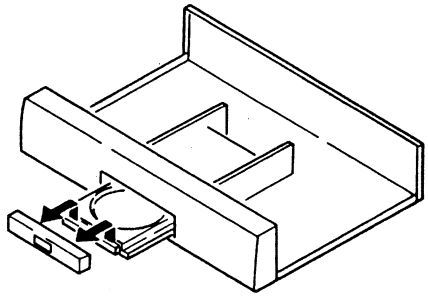
1. The disc is not coming out by pressing the open botton.

1. Remove the case and DVD disc in the unit.
2. Insert the small screw driver into the hole on the bottom chassis.
3. Travel the rotary cam to the tray open position.
4. Travel the tray to open position by hand.
5. Remove the dress panel.



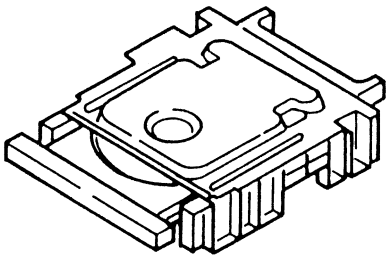


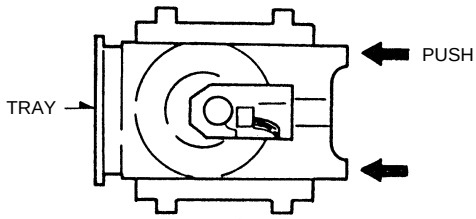


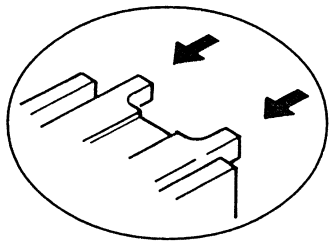


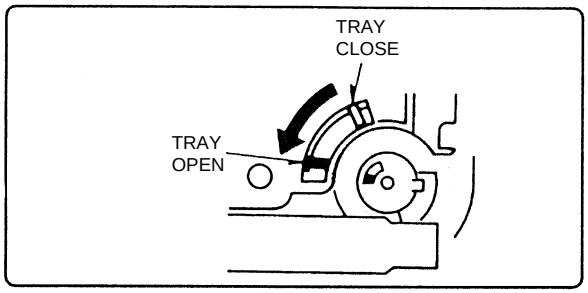
2. The Loading Tray

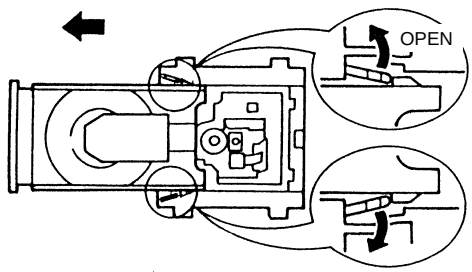
1. Travel the rotary cam to the tray open position.
2. Travel the tray to open position by hand.
3. Open the hooks of the tray holder and pull out it.







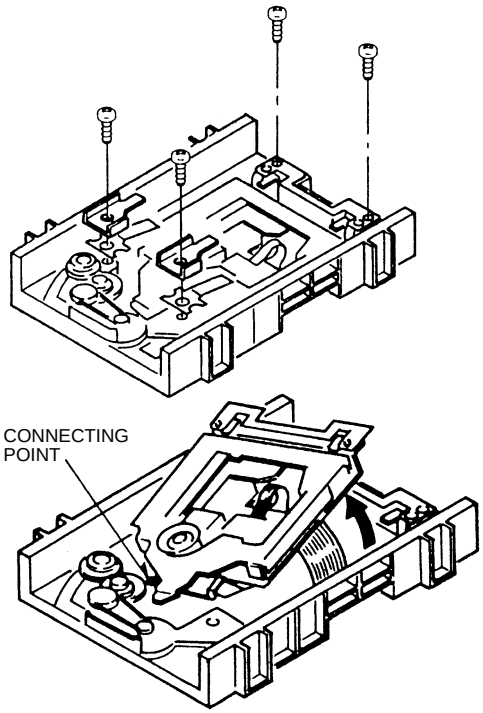




DISASSEMBLY FOR REPAIR

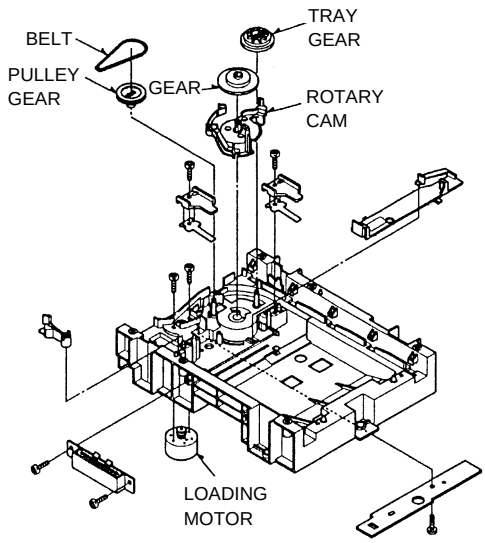
3. Traverse Unit

1. Remove the screws fixing the plate spring, the chassis stopper and the spring.
2. Lift the back of the traverse unit and remove it.



4. Loading Mechanism Parts

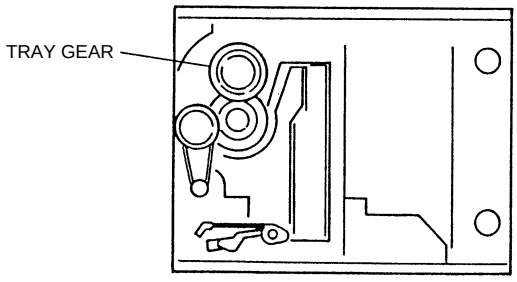
1.The loading parts is avalable without disassemble. Refer to the followings.



How to Assemble

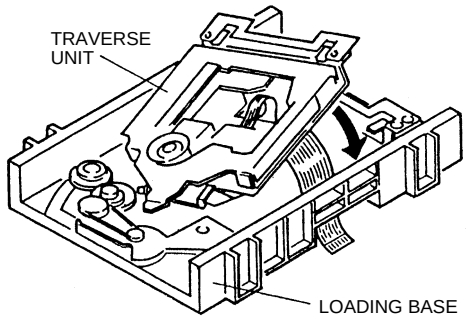
1. Loading Mechanism

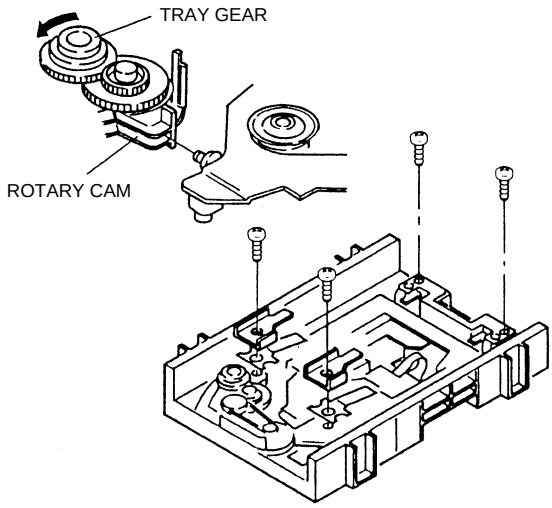
This mechanism has no order for assembling the loading parts.



2. Traverse Unit

1. Pass the flexible cable from the inside of the loading base to the outside of that.
2. Insert the top of the traverse unit to the groove of the rotary cam and fix it with screws.

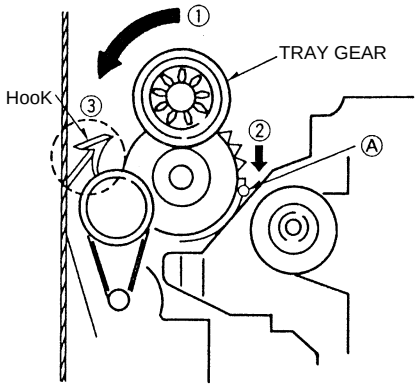


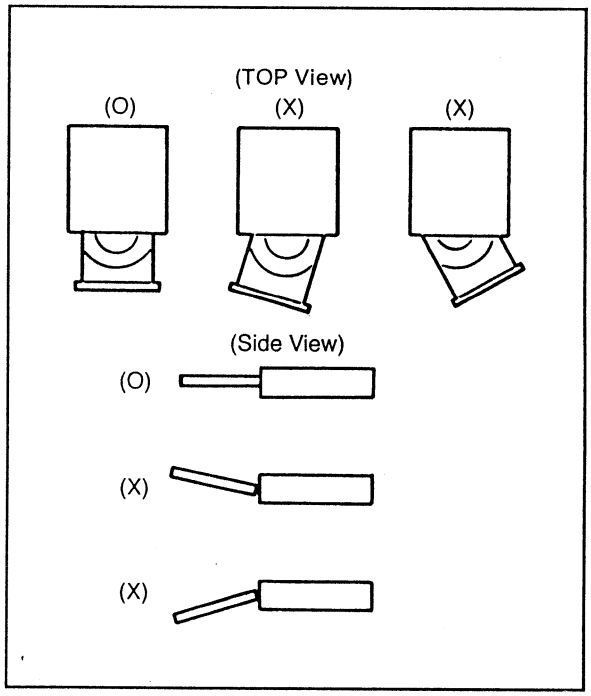


DISASSEMBLY FOR REPAIR

3. Loading Tray

1.Turn the tray gear to move the traverse unit at the bottom position counterclockwisely.
2. Push the Ⓐ of the rotary cam to the arrow direction.
3. Check the hook to be locked.
4. Load the tray to the loading base straightly.





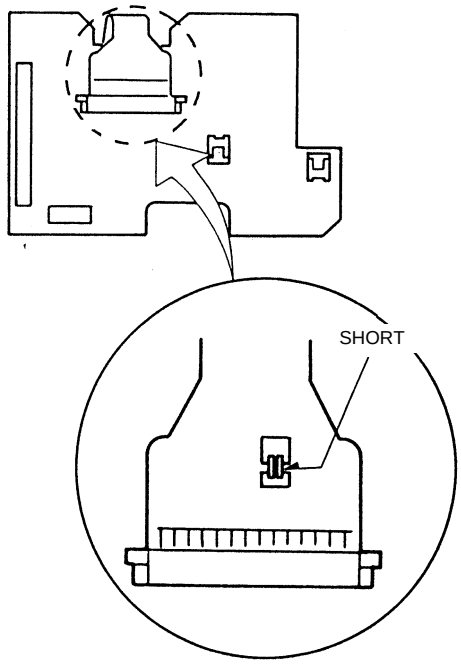
4. Clamper

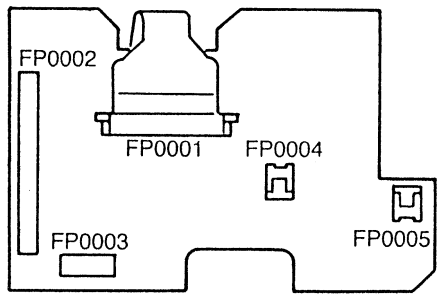
1. Mount the clamper plate before assembling the loading base to the unit.

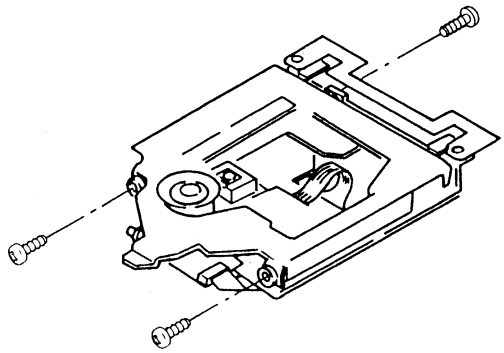
How to Replace

1. Preparation

1. Short the pickup short lands for protecting the damage of the statics.
2. Remove all of the flexible cables on the connection pcb.
3. Remove screws to divide the traverse unit



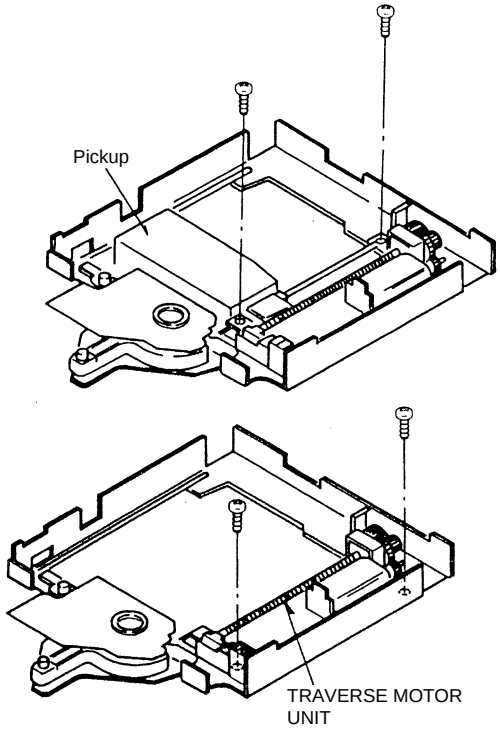




DISASSEMBLY FOR REPAIR

2. Laser Pickup

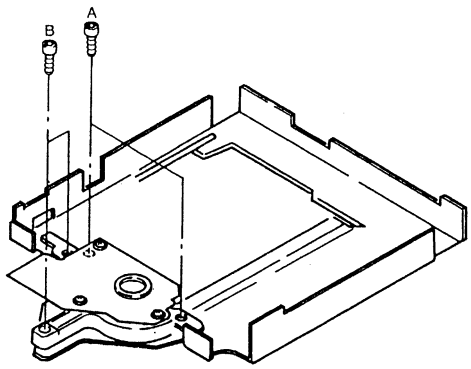
1.Remove the screws fixing the pickup.
2.Remove the screws fixing the traverse motor.



3. Disc Motor

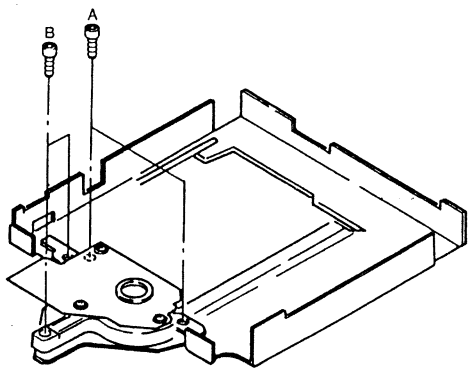
1. Remove the A screw and the B screw in the order.

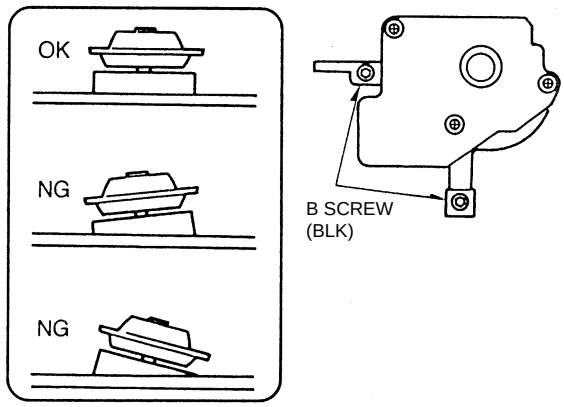
Note: No need to remove the laser pickup when disc motor replace procedure.



4. Assemble

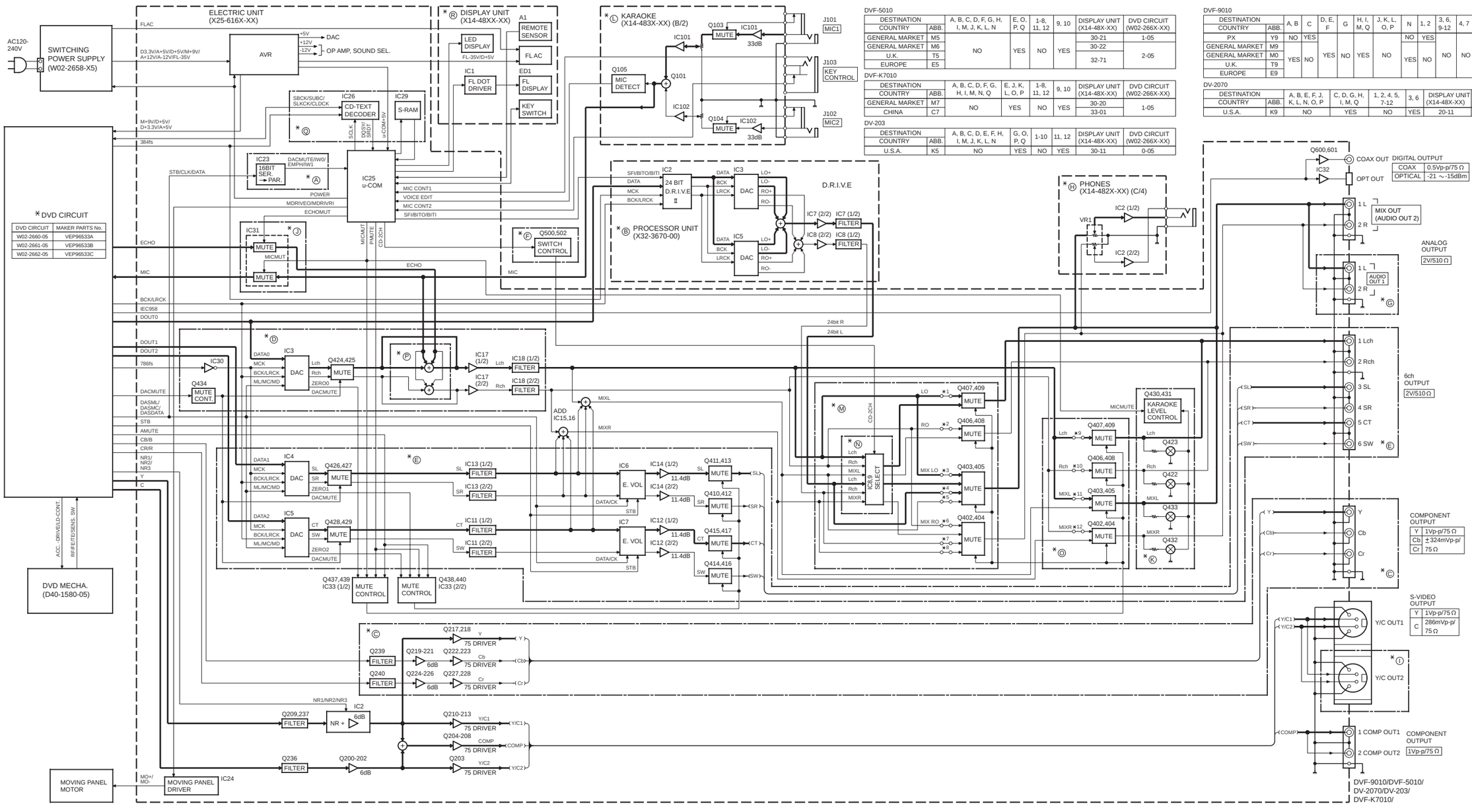
1. Assemble the traverse unit and the pickup in the reverse order of disassembly.
2. Fix the A screw and the B adjusting screw when the disc motor unit mount.
3. Fix the B screw so that the disc motor unit is at a level with the traverse unit.





4. After assembled the pickup, the traverse motor unit or the disc motor, adjust "TANGENTIAL" and "TILT" of the adjustment.
(Need not adjust this adjustment to exchange the traverse unit.)

BLOCK DIAGRAM



DVF-5010

DESTINATION		A, B, C, D, F, G, H, I, M, J, K, L, N	E, O, P, Q	1-8, 11, 12	9, 10	DISPLAY UNIT (X14-48X-XX)	DVD CIRCUIT (W02-266X-XX)
COUNTRY	ABB.						
GENERAL MARKET	M5	NO	YES	NO	YES	30-21	1-05
GENERAL MARKET	M6					30-22	2-05
U.K.	T5					32-71	
EUROPE	E5						

DVF-K7010

DESTINATION		A, B, C, D, F, G, H, I, M, N, Q	E, J, K, L, O, P	1-8, 11, 12	9, 10	DISPLAY UNIT (X14-48X-XX)	DVD CIRCUIT (W02-266X-XX)
COUNTRY	ABB.						
GENERAL MARKET	M7	NO	YES	NO	YES	30-20	1-05
CHINA	C7					33-01	

DV-203

DESTINATION		A, B, C, D, E, F, H, I, M, J, K, L, N	G, O, P, Q	1-10	11, 12	DISPLAY UNIT (X14-48X-XX)	DVD CIRCUIT (W02-266X-XX)
COUNTRY	ABB.						
U.S.A.	K5	NO	YES	NO	YES	30-11	0-05

DVF-9010

DESTINATION		A, B	C	D, E, F	G	H, I, M, Q	J, K, L, O, P	N	1, 2	3, 6, 9-12	4, 7	5, 8	DISPLAY UNIT (X14-48X-XX)	DVD CIRCUIT (W02-266X-XX)
COUNTRY	ABB.													
PX	Y9	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES	20-11	0-05
GENERAL MARKET	M9	YES	NO					YES	NO				20-21	1-05
GENERAL MARKET	M0												20-22	2-05
U.K.	T9												22-71	
EUROPE	E9													

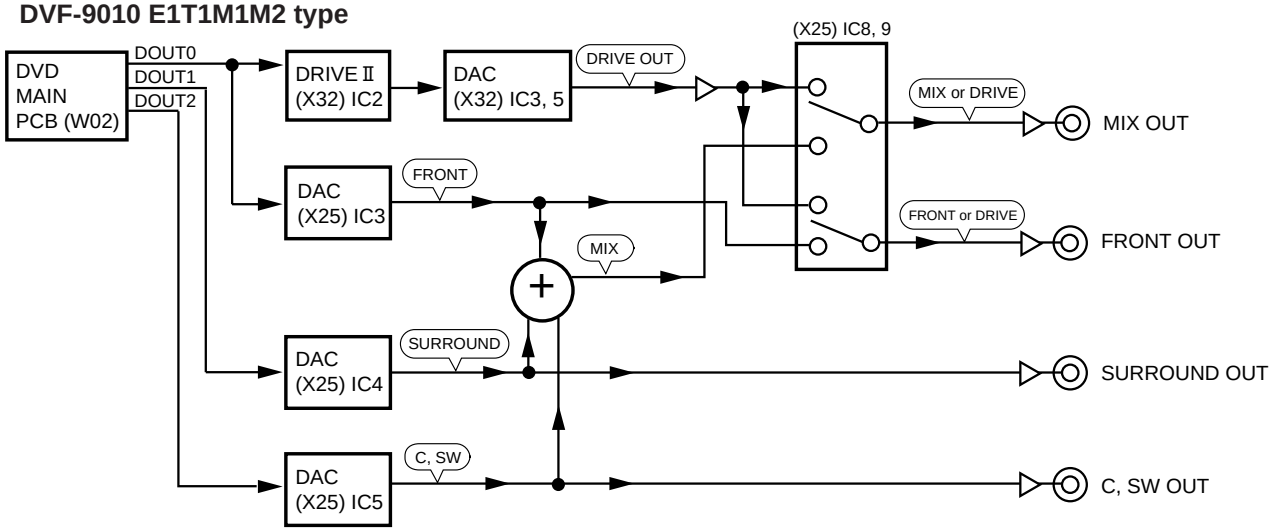
DV-2070

DESTINATION		A, B, E, F, J, K, L, N, O, P	C, D, G, H, I, M, Q	1, 2, 4, 5, 7-12	3, 6	DISPLAY UNIT (X14-48X-XX)	DVD CIRCUIT (W02-266X-XX)
COUNTRY	ABB.						
U.S.A.	K9	NO	YES	NO	YES	20-11	0-05

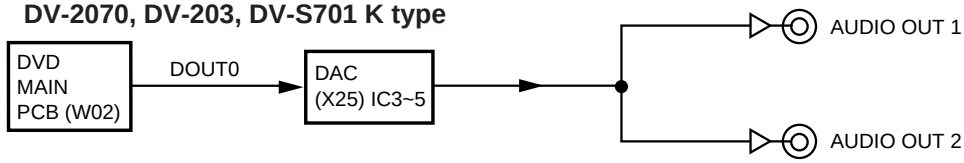
CIRCUIT DESCRIPTION

1. Audio circuit for model and destination

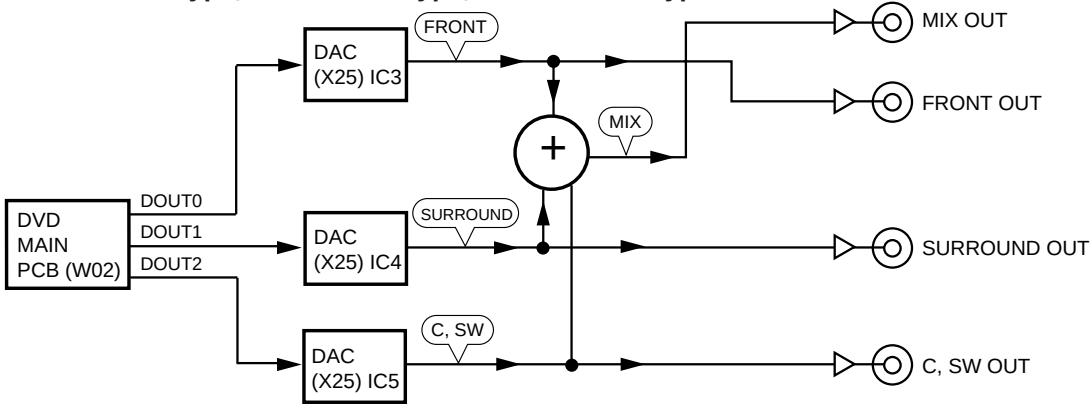
DVF-9010 E1T1M1M2 type



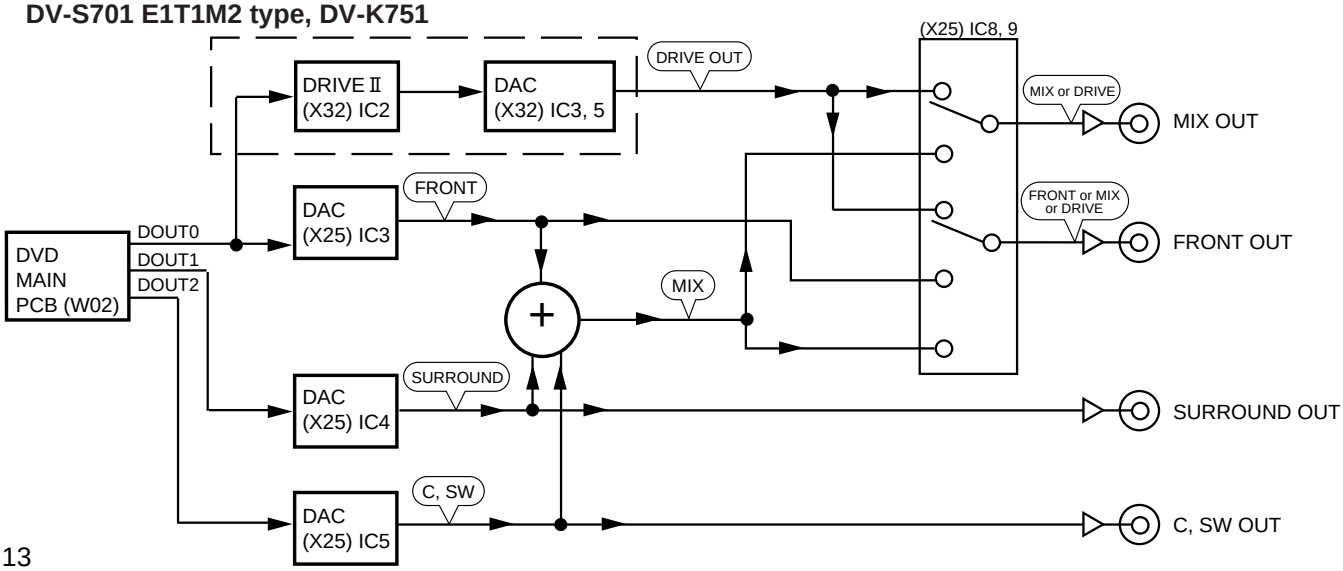
DV-2070, DV-203, DV-S701 K type



DVF-9010 Y type, DVF-5010 M type, DVF-K7010 M type



DV-S701 E1T1M2 type, DV-K751

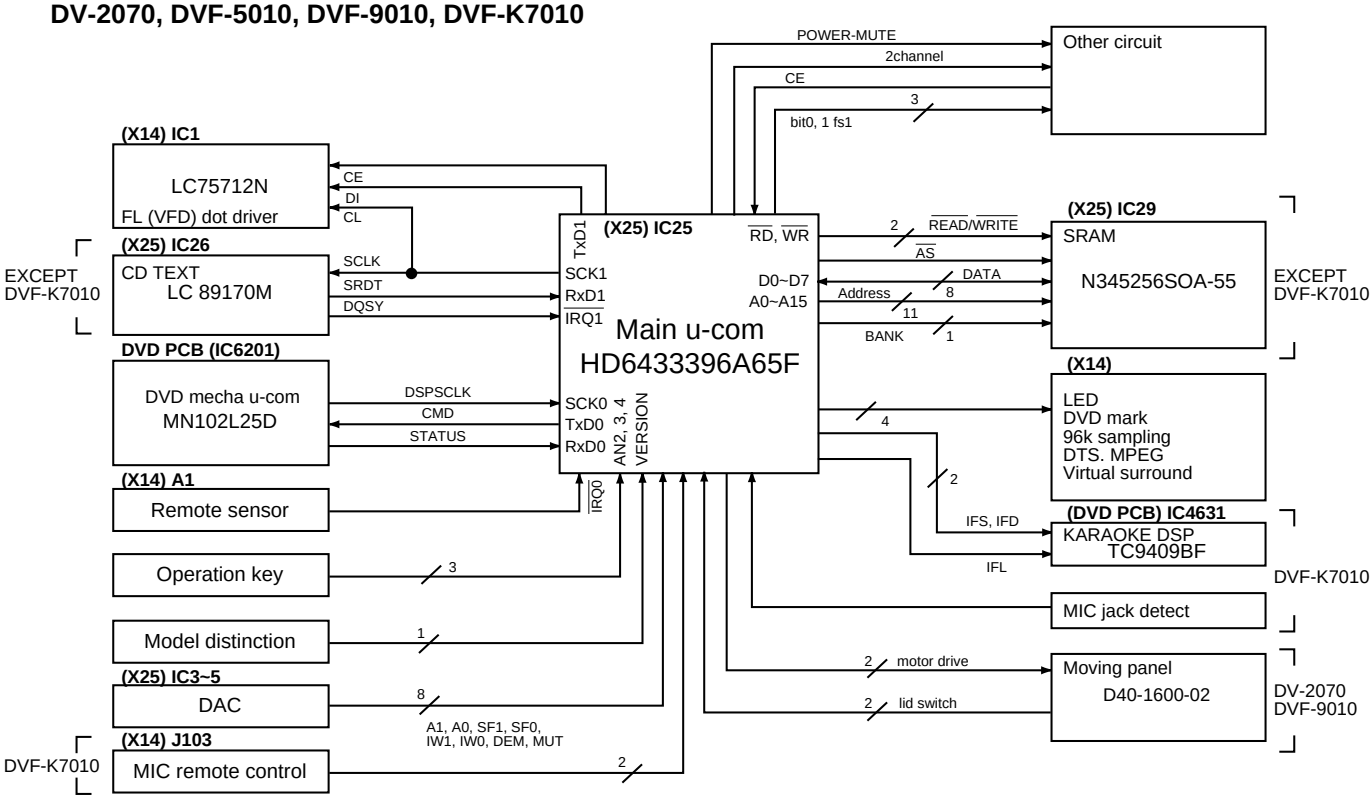


CIRCUIT DESCRIPTION

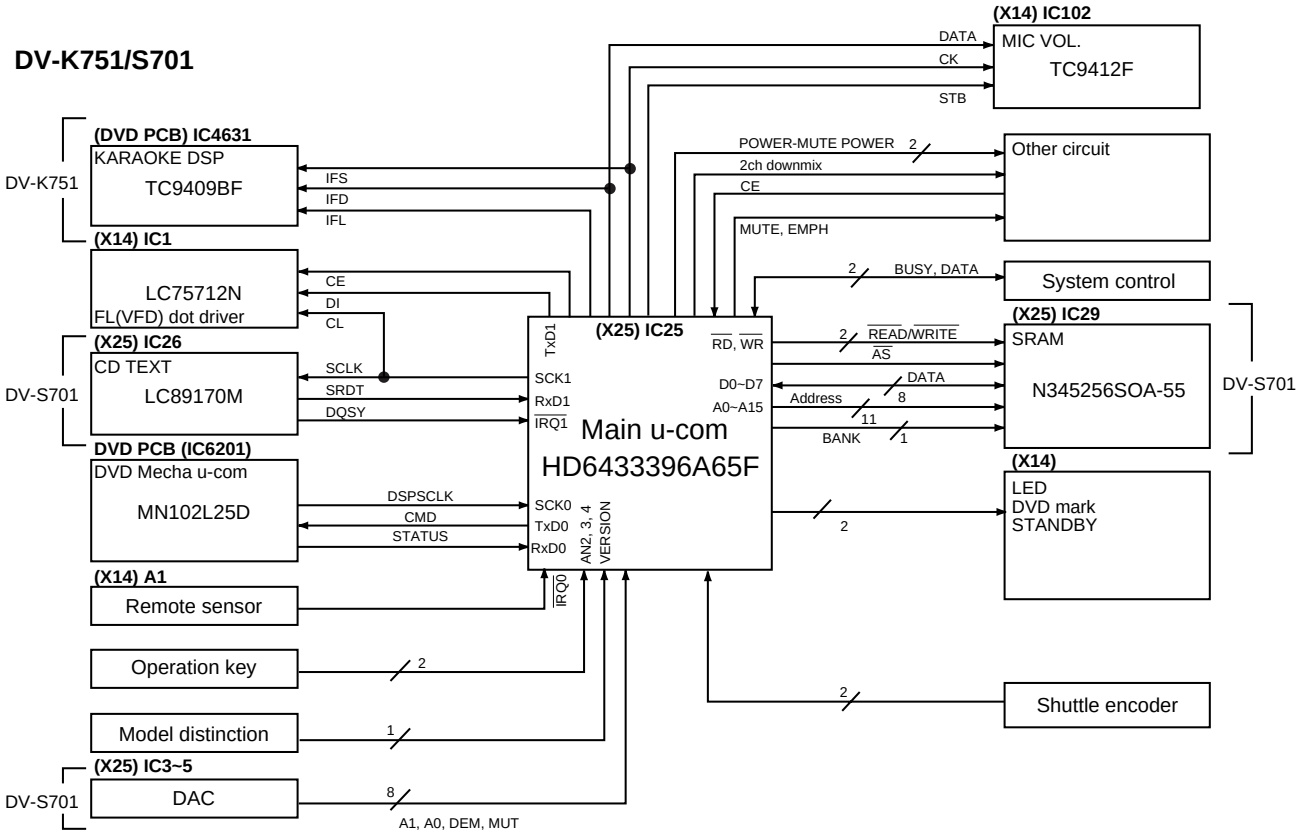
2. Main microprocessor : HD6433396A65F (X25: IC25)

2-1 Block diagram

DV-2070, DVF-5010, DVF-9010, DVF-K7010



DV-K751/S701



CIRCUIT DESCRIPTION

2-2 Pin description

Pin No.	Pin Name	I/O	Description	
1	/RES	I	Input port of the microprocessor reset	
2,3	X/ETAL	I/O	Port of ceramic oscillator	
4,5	MD1/0	I	Operation mode0(fixed H) and 1(fixed L)	
6	/NMI	–	No use	
7	/STBY	–	No use	
8	VCC	–	Power supply(+5V)	
9	DSPCLK	I	Input port of the clock signal from the mechanism microprocessor	
10	STATUS	I	Input port from the mechanism microprocessor reset	
11	CMD	O	Output port to the mechanism microprocessor reset	
12	VSS	–	GND	
13,14	–	–	No use	
15	/AS	O	Access mode of extra-address	
16	/WR	O	Read mode of extra-address	
17	/RD	O	Write mode of extra-address	
18	REMOCON	O	Input port of remote control signal	
19	DQSY	I	Input port of read signal from CD-TEXT IC	
20	/2 CHANNEL	O	2 channel	H : except 2CH, L : 2CH
	/CD	O	CD	H : except CD, L : CD
21	BIT 0	O	Bit 0	H : 16 or 20bit, L : 24bits
	SYNCHRO BUSY	I/O	Synchro busy signal	
22	SDATA	I/O	Synchro data signal	
23	PANEL OPEN	O	Moving panel motor driver 0	
	IFS	O	Karaoke DSP serial clock output	
	CK	O	KARAOKE DSP/MIC volume IC clock output	
24	PANEL CLOSE	O	Moving panel motor driver 1	
	IFD	O	Karaoke DSP serial data output	
	DATA	O	KARAOKE DSP/MIC volume IC data output	
25	MUTE	O	DAC mute	H : on, L : off
	IFL	O	Karaoke DSP serial latch output	
26	FS1	O	Sampling frequency(FS)1	H : 44.1 or 48kHz, L : 96kHz
	MIC-MUTE	O	Mic mute	H : off, L : on
27	POWER	O	Power supply control port	H : standby, L : power on
28	BIT 1	O	Bit 1	H : 16bit, L : 20 or 24bits
	ECHO-MUTE	O	Echo mute	H : off, L : on
29	AVCC	–	Standard voltage for A/D	
30	PANEL CLOSE SW	I	Moving panel close switch	L : on
	MIC REMOTE 1	I	Mic remote control 1	
31	PANEL OPEN SW	I	Moving panel open switch	L : on
	MIC REMOTE 0	I	Mic remote control 0	
32,33	KEY0,1	I	Key input port 0,1	
34	KEY2	I	Key input port 2	
35	VERSION	I	Model selector	
36,37	–	–	No use	
38	AVSS	–	GND for A/D	
39	LED 96kHz	O	96kHz sampling indicator	H : on, L : off
40	LED DTS/MPEG	O	DTS/MPEG indicator	H : on, L : off
	2CH DOWN MIX	O	2 channel down mix	H : on, L : off
41	LED DVD	O	DVD indicator	H : on, L : off
42	LED VIRTUAL SURR	O	Virtual Surround indicator	H : on, L : off
	LED STANDBY	O	LED standby	H : on, L : off
43	BB-A1	I	DAC data register address A1	
44	BB-A0	I	DAC data register address A0	
	STB	O	Mic volume IC latch output	
45	BB-IW1	I	DAC data bit IW1	
	SHUTTLE SW1	I	Shuttle switch 1	
46	BB-IW0	I	DAC data bit IW0	
	SHUTTLE SW0	I	Shuttle switch 0	
47	VCC	–	Power supply	
48	BB-SF1	I	DAC sampling rate(SF1)	
	VOICE-DET	I	Voice defect	H : voice, L : non-voice

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description	
49	BB-MUT	I	DAC soft mute	
	MIC-IN	I	Mic input control port	H : in, L : out
50	BB-SF0	I	DAC sampling rate(SF0)	
51	BB-DEM	I	DAC data deemphasis	
52	CE	I	Chip enable	H : Power supply on L : off
53-55	A10-8	O	Access address of SRAM	
56	VSS	–	GND	
57-64	A7-0	O	Access address of SRAM	
65-72	D0-7	I/O	Access data of SRAM	
73	VSS	–	GND	
74	BANK A	O	Bank selector A	
75	P-MUTE	O	Power mute	H : off, L : on
76	EMPH	O	Deemphasis	H : on, L : off
77	CE	O	FL driver IC serial control latch	
78	DI	O	FL driver IC serial data	
79	SRDT	I	Data for CD-TEXT	
80	CL	O	FL driver IC serial clock	
	SCLK	O	Serial clock for CD-TEXT/VFD	

2-3 Port table

Pin No.	Pin Name	I/O	DVF-9010	DV-2070	DVF-K7010	DV-5010	DV-203	DV-S701	DV-K751
1	/RES	I	○	○	○	○	○	○	○
2	XTAL	I/O	○	○	○	○	○	○	○
3	EXTAL	I/O	○	○	○	○	○	○	○
4	MD1	I	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
5	MD0	I	LOW	LOW	LOW	LOW	LOW	LOW	LOW
6	/NM1	–	○	○	○	○	○	○	○
7	/STBY	–	○	○	○	○	○	○	○
8	VCC	–							
9	DSPCLK	I	○	○	○	○	○	○	○
10	STATUS	I	○	○	○	○	○	○	○
11	CMD	O	○	○	○	○	○	○	○
12	VSS	–							
13,14	-	–							
15	/AS	O	○		○	○	○	○	
16	/WR	O	○		○	○	○	○	
17	/RD	O	○		○	○	○	○	
18	REMOCON	I	○	○	○	○	○	○	○
19	DQSY	I	○	○		○	○	○	
20	CD	O						○	
	2CHANNEL	O	○						
21	SYNCHRO BUSY	I/O						○	○
	BIT 0	O	○						
22	SYNCHRO DATA	I/O						○	○
23	PANEL OPEN	O	○	○					
	IFS	O			○				▲
	CK	O							▲
24	PANEL CLOSE	O	○	○					
	IFD	O			○				▲
	DATA	O							▲
25	MUTE	O	○					○	
	IFL	O			○				○

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	DVF-9010	DV-2070	DVF-K7010	DV-5010	DV-203	DV-S701	DV-K751
26	FS1	O	○						
	MIC-MUTE	O			○				○
27	POWER	O	○	○	○	○	○		
28	BIT 1	O	○						
	ECHO-MUTE	O			○				○
29	AVCC	–							
30	MIC REMOTE 1	I			○				
	PANEL CLOSE SW	I	○	○					
31	MIC REMOTE 0	I			○				
	PANEL OPEN SW	I	○	○					
32.33	KEY0,1	I	○	○	○	○	○	○	○
34	KEY 2	I	○	○	○				
35	VERSION	I	○	○	○	○	○	○	○
36,37	-	–							
38	AVSS	–							
39	LED 96KHZ	O	○	○	○	○	○		
40	LED DTS/MPEG	O	○	○	○	○	○		
	2CH DOWN MIX	O						○	○
41	LED DVD	O	○	○				○	○
42	LED VIRTUAL SURR	O	○	○	○	○	○		
	LED STANDBY	O						○	○
43	BB-A1	I	○					○	
44	BB-A0	I	○					○	
	STB	O							○
45	SHUTTLE SW 1	I						○	○
	BB-IW1	I	○						
46	SHUTTLE SW 0	I						○	○
	BB-IW0	I	○						
47	VCC	–							
48	VOICE-DET	I			○				○
	BB-SF1	I	○						
49	MIC-IN	I			○				○
	BB-MUT	I	○					○	
50	BB-SF0	I	○						
51	BB-DEM	I	○					○	
52	CE	I	○	○	○	○	○	○	○
53-64	ADDRESS 0-10	O	○	○		○	○	○	
65-72	DATA 0-7	I/O	○	○		○	○	○	
73	VSS	–							
74	BANK A	O	○	○		○	○	○	
75	POWER MUTE	O	○	○	○	○	○	○	○
76	EMPH	O	○					○	
77	CE	O	○	○	○	○	○	○	○
78	DI	O	○	○	○	○	○	○	○
79	SRDT	I	○	○		○	○	○	○
80	CL	O	▲	▲	○	▲	▲	▲	▲
	SCLK	O	▲	▲		▲	▲	▲	▲

○=use、 ▲=common use

CIRCUIT DESCRIPTION

3. Voltage matrix

PORT#32				PORT#33			PORT#34		PORT#35
VOLTAGE	DVF-9010/ VD-2070	DVF-K7010	DVF-5010/ VD-203	DVF-9010/ VD-2070	DVF-K7010	DVF-5010/ VD-203	DVF-9010/ VD-2070	DVF-K7010	MODEL NAME
5 V									
	–	–	–	–	–	–	–	–	DV-K751
4.58V									
	◄(LEFT)	–	–	–	REPEAT	REPEAT	–	–	DVF-9010
3.75V									
	▲(UP)	–	–	RETURN	❚❚(STILL/PAUSE)	❚❚(STILL/PAUSE)	–	–	DV-2070
2.92V									
	ENTER	–	–	MENU	⏮(BWD SKIP)	⏮(BWD SKIP)	⏭(FWD SKIP)	KARAOKE	DVF-K7010
2.08V									
	▼(DOWN)	OPEN/CLOSE	OPEN/CLOSE	❚❚(STILL/PAUSE)	⏭(FWD SKIP)	⏭(FWD SKIP)	⏮(BWD SKIP)	♭(FLAT)	DVF5010
1.25V									
	►(RIGHT)	►(PLAY)	►(PLAY)	PANEL UP/DOWN	◄◄ (FB)	◄◄ (FB)	■(STOP)	♮(NATURAL;)	DV-203
0.42V									
	ON SCREEN	■(STOP)	■(STOP)	OPEN/CLOSE	►► (FF)	►► (FF)	►(PLAY)	♯(SHARP)	DV-S701
0 V									

4. MIC PORT

MIC CONTROL		PORT#31		
		5 V	4 V	0 V
PORT#30	5 V	OFF	–	#
	4 V	–	OFF	–
	0 V	♭	–	LESSON RETURN

5. Setup and initial items

items	Disc language	Ratings	Menu language	On-screen message	FL display	TV aspect	Digital audio output	Speaker setting	Other setting
Contents	**Audio**: Original **Subtitle** :Automatic **Menue:** English	8(No limit)	English	On	Bright	4:3	**LPCM(DVD):** Off **Dolby digital:** Bitstream **MPEG: PCM/DTS:** On	**Front:** On(small) **Center:** On(small) **Rear**:On(small) **Subwoofer:** On **Delay time:** 0ms **Channel balance:** 0dB	**Still mode:** Automatic **Audio during search:** On **TV mode(4:3):** Pan&scan **D.range compression:** On
DVF-9010	○	○	○	○	○	○	○	○	○
DV-2070	○	○	○	○	○	○	○	×	○
DVF-K7010	○	○	○	○	○	○	○	○	○
DVF-5010	○	○	○	○	○	○	○	○	○
DV-203	○	○	○	○	○	○	○	×	○
DV-S701	○	○	○	○	○	○	○	○/×(K)	○
DV-K751	○	○	○	○	○	○	○	○	○

CIRCUIT DESCRIPTION

6. DAC : AD1855 (X32: IC3, 4)

6-1 Pin description

Pin No.	Pin Name	I/O	Descriptions
1	DGND	I	Digital GND.
2	MCLK	I	Master clock input. Connect to an external clock source at either 256,384 or 512Fs.
3	CLATCH	I	Latch input for control data. This input is rising edge sensitive.
4	CCLK	I	Control clock input for control data. Control input data must be valid on the rising edge of CCLK. CCLK may be continuos or gated.
5	CDATA	I	Serial control input, MSB first, containing 16 bits of unsigned data per channel. Used for specifying channel specific attenuation and mute.
6	384/256	I	Select the master clock mode as either 384 times the intended sampling frequency(HI) or 256 times the intended sampling frequency(LO). The state of this input should be hardwired to logic HI or logic LO or may be changed while the AD1855 is in power down/reset. It must not be changed while the AD1855 is operational.
7	X2MCLK	I	Select internal clock doubler(LO) or internal clock =MCLK(HI).
8	ZEROR	O	Right channel zero flag output. This port goes HI when left channel has no signal input for more than 1024 LR clock cycles.
9	DEEMP	I	Deemphasis. Digital deemphasis is enabled when this input signal is HI. This is used to impose a 50/15 ms response characteristic on the output audio spectrum at an assumed 44.1kHz sample rate.
10	48/96	I	Selects 48kHz(LO) or 96kHz sampling frequency control.
11	AGND	I	Analog GND
12	OUTR+	O	Right channel positive line level analog output
13	OUTR-	O	Right channel negative line level analog output
14	FILTER	O	Voltage reference filter capacitor connection. Bypass and decouple the voltage reference with parallel 10uF and 0.1uF capacitor to the AGND.
15	AGND	I	Analog GND
16	OUTL-	O	Left channel negative line level analog output
17	OUTL+	O	Left channel positive line level analog output
18	AVDD	I	Analog power supply. Connect to the analog +5V supply.
19	FILTB	-	Filter capacitor connection, connect 10uF capacitor to AGND.
20	IDPM1	I	Input serial data port mode control one. With IDPM0, defines 1 of 4 serial modes.
21	IDPM0	I	Input serial data port mode control zero. With IDPM1, defines 1 of 4 serial modes.
22	ZEROL	O	Left channel zero flag output. This port goes HI when right channel has no signal input for more than 1024 LR clock cycles.
23	MUTE	I	Mute. Assert HI to mute both stereo analog outputs. Dessert LO for normal operation.
24	PD/RST	I	Power down/reset. The AD1855 is placed in a low power consumption mode when this port is held LO. The AD1855 is reset on the rising edge of this signal. The serial control port registers are reset to the default values. Connect HI for normal operation.
25	LRCLK	I	Left/right clock input for input data. Must run continuously.
26	BCLK	I	Bit clock input for input data. Need not run continuously;may be gated or used in a burst fashion.
27	DSDAT	I	Serial input, MSB first, containing two channels of 16/18/20/24 bits of twos compliment data per channel.
28	DVDD	I	Digital power supply. Connect to the digital +5V supply.

6-2 SERIAL DATA INPUT MODE

IDPM1 (PIN20)	IDPM0 (PIN21)	Serial data input format
0	0	Right-Justified (16 bits only)
0	1	I2S Compatible
1	0	Left-Justified
1	1	DSP

CIRCUIT DESCRIPTION

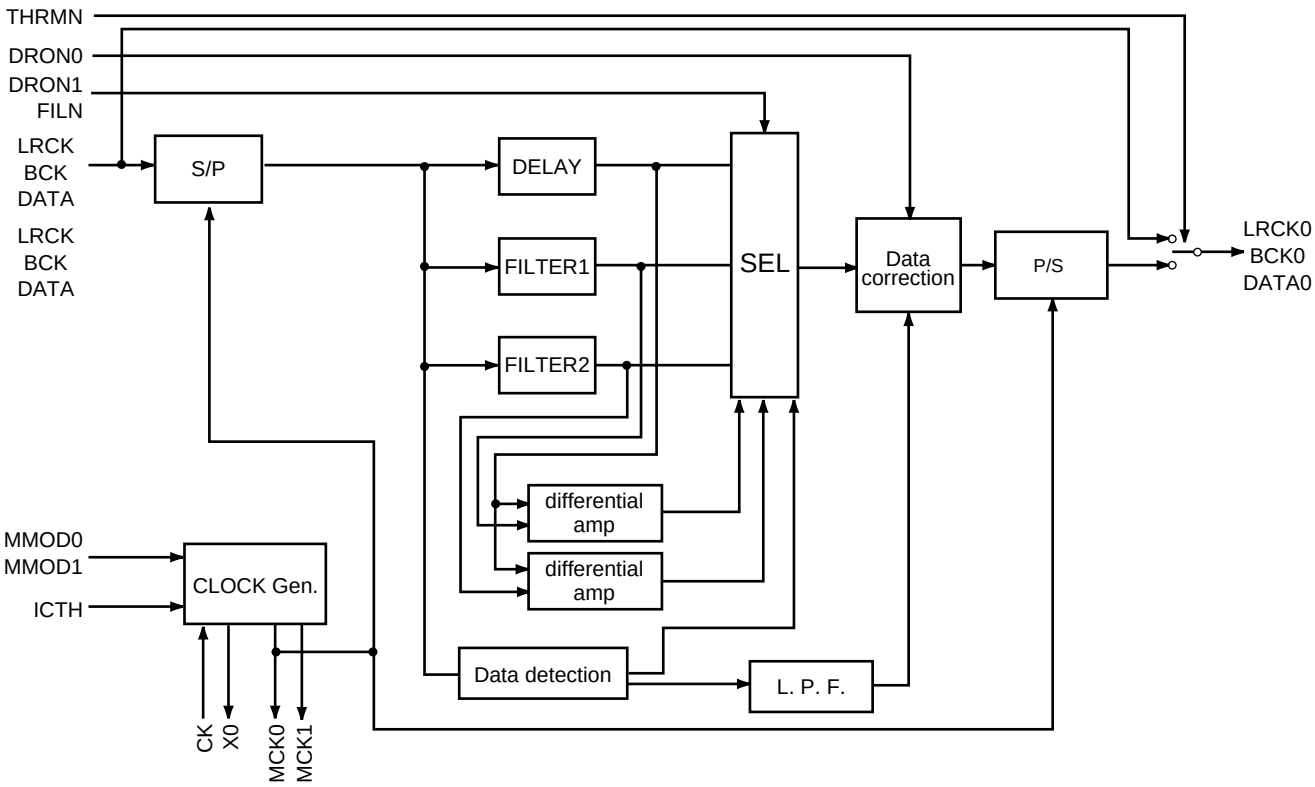
7. DSP/D.R.I.V.E.Ⅱ : KAN06 (X32 : IC2)

7-1 Pin description

Pin No.	Pin Name	I/O	Descriptions
1	MUTE	I	Mute(H:on)
2	BCK	I	BCK input port
3	DATA	I	Data input port
4	LRCK	I	LRCK input port
5	RST	I	Reset input port(L:reset)
6	VSS	-	GND
7	IBF	I	Input format setting(1)
8	IIS	I	Input format setting(2)
9	IUD	I	Inverted input port of LRCK
10	IW0	I	Input data period setting(1)
11	IW1	I	Input data period setting(2)
12	VSS	-	GND
13-16	NCON3-0	O	Test port
17	VDD	-	Power supply port
18	DR0N0	I	ROM compensation on/off
19	DR0N1	I	Filter compensation on/off
20	NT	I	Connect H level
21	RND0	I	Open
22	RND1	I	Open
23	OBF	I	Output format setting(1)

Pin No.	Pin Name	I/O	Descriptions
24	OIS	I	Output format setting(2)
25	OLRRL	I	Output change port
26	OUD	I	Edge setting of LRCK0
27	FILN	I	Connect H level
28	VSS	-	GND
29	LRCKO	O	LRCK output port
30	DATAO	O	DATA output port
31	BCKO	O	BCK output port
32	DRVW	I	Connect H level
33	THRMN	I	Through mode
34	ICTH	I	Phase setting of internal oscillation
35	VDD	-	Power supply port
36	CK	I	Master clock input port
37	X0	O	Crystal output port
38	VSS	-	GND
39	VDD	-	Power supply port
40,41	MCK0,1	O	Master clock output port
42	VSS	-	GND
43,44	MMOD0,1	I	Master clock frequency setting

7-2 Block diagram



CIRCUIT DESCRIPTION

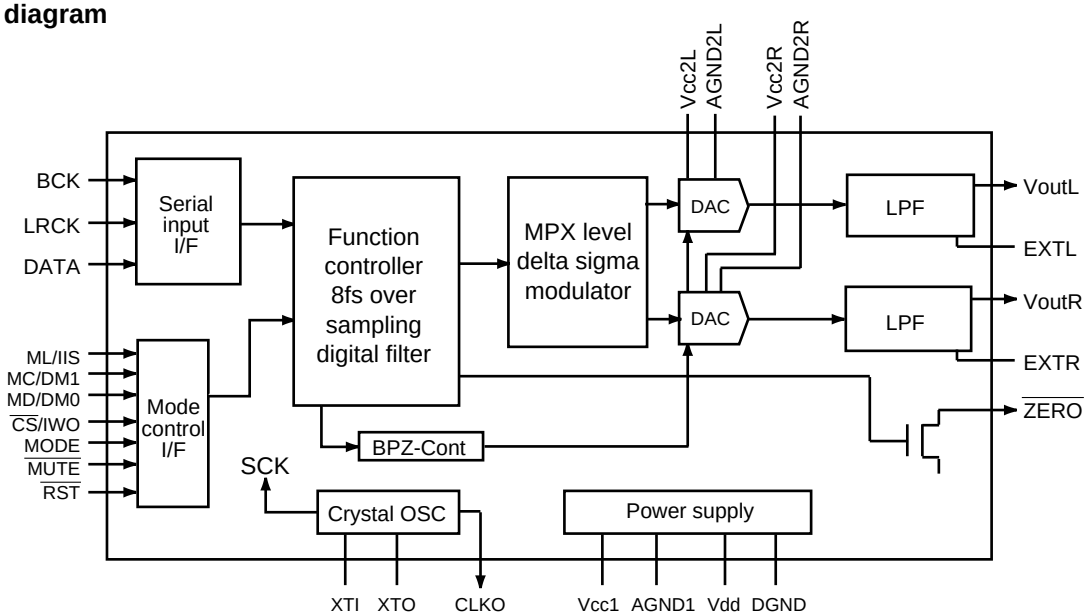
8. DAC : PCM1716E (X25 : IC3~5)

8-1 Pin description

Pin No.	Pin Name	I/O	Descriptions
1	LRCK	I	LRCK clock input port
2	DATA	I	Data input port
3	BCK	I	Bit clock input port of data
4	CLKO	O	System clock buffer output port
5	XTI	I	Clock input port
6	XTO	O	Crystal connection port
7	DGND	–	Digital GND
8	VDD	–	Digital power supply(+5V)
9	VCC2R	–	Analog power supply(+5V)
10	AGND2R	–	Analog GND
11	EXTR	O	R-ch, analog output
12	NC	–	No connection
13	VOUTR	O	R-ch, analog output port
14	AGND1	–	Analog GND
15	VCC1	–	Analog power supply(+5V)
16	VOUTL	O	L-ch, analog output port

Pin No.	Pin Name	I/O	Descriptions
17	NC	–	No connection
18	EXTL	O	L-ch, analog output
19	AGND2L	–	Analog GND
20	VCC2L	–	Analog power supply(+5V)
21	/ZERO	O	Zero data flag
22	/RST	I	Reset port
23	/CS/IWO	I	Chip select/input format select
24	MODE	I	Mode control selector (H:soft,L:hard)
25	/MUTE	I	Mute control
26	MD/DM0	I	Mode control data/deemphasis selector
27	MC/DM1	I	Mode control BCK/deemphasis selector
28	ML/IIS	I	Mode control latch/input format selector

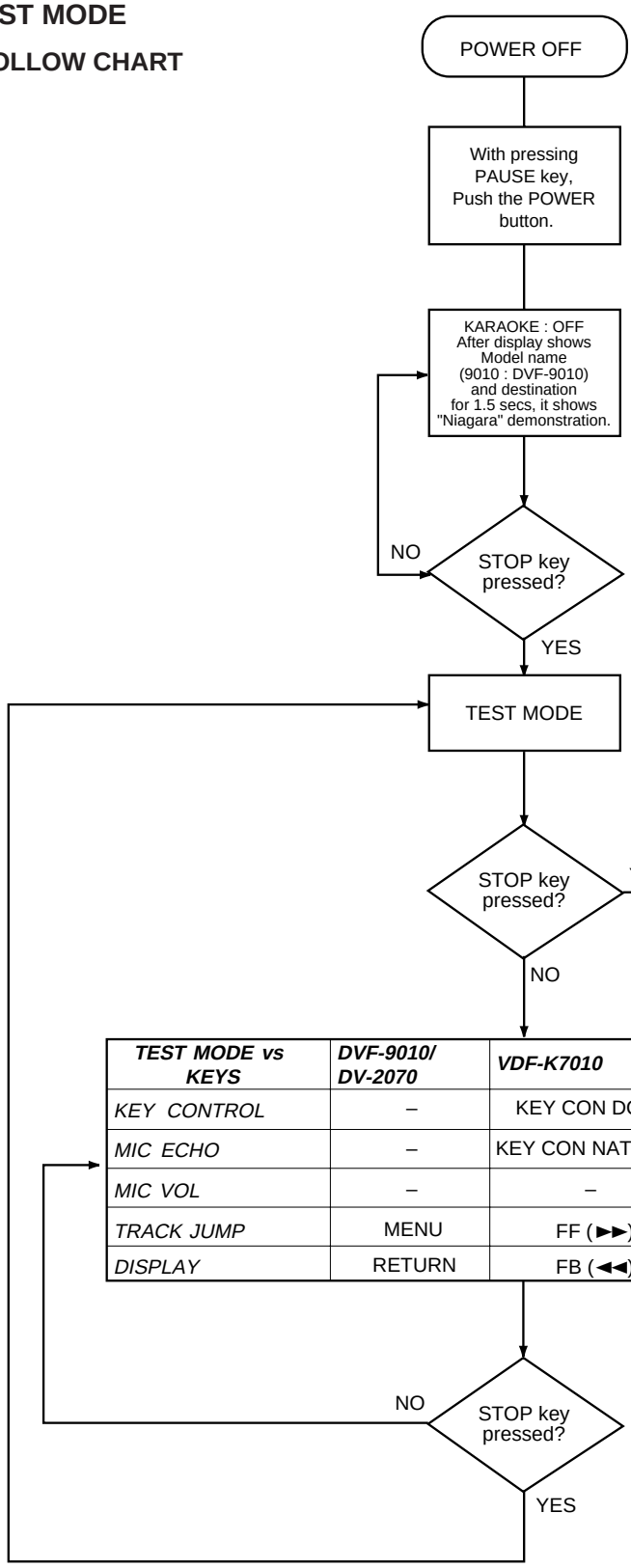
8-2 Block diagram



CIRCUIT DESCRIPTION

9. TEST MODE

9-1 FOLLOW CHART



TEST MODE vs KEYS	DVF-9010/ DV-2070	VDF-K7010	DVF-5010/ DV-203	DV-S701	DV-K751
KEY CONTROL	–	KEY CON DOWN	–	–	MIC1 UP
MIC ECHO	–	KEY CON NATURAL	–	–	MIC2 UP
MIC VOL	–	–	–	–	MIC1 DOWN
TRACK JUMP	MENU	FF (►►)	FF (►►)	TITLE SEARCH	MIC2 DOWN
DISPLAY	RETURN	FB (◄◄)	FB (◄◄)	FL DISPLAY	FL DISPLAY

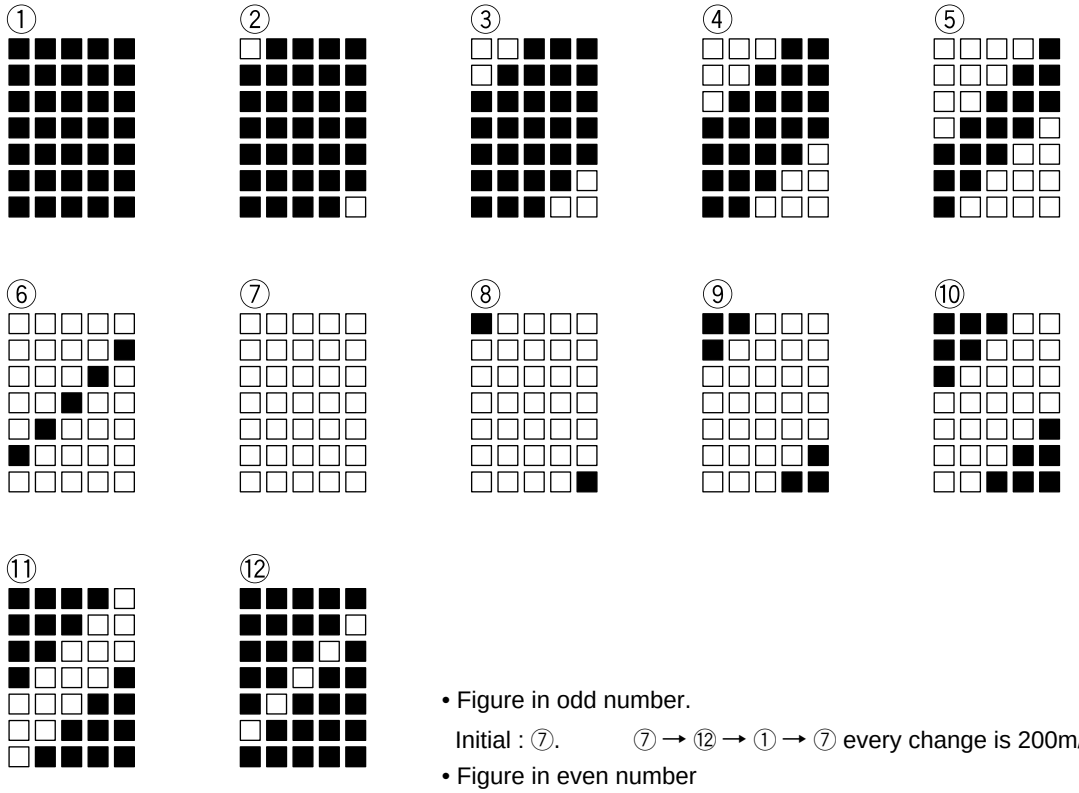
TEST MODE vs OPERATION KEY

DISPLAY	Descriptions
*KEY CONTROL TEST**	
KEY CON NATURAL	0 cent(level 0)
KEY CON SHARP	600 cent(level 6)
KEY CON FLAT	-600 cent(level-6)
*MIC ECHO TEST**	
ECHO HIGH	ECHO VALUE 15
ECHO MID	ECHO VALUE 8
ECHO LOW	ECHO VALUE 0
*MIC VOLUME TEST**	
MIC HIGH	ATTENUATION :0dB
MIC MID	ATTENUATION :-6dB
MIC LOW	ATTENUATION :MAXIMUM
TRACK JUMP TEST	
JUMP TO THE 41 TRACK IF PLAYBACK THE 1ST TRACK. JUMP TO THE 1ST TRACK IF NOT PLAYBAK THE 1ST TRACK. DISPLAY SHOWS "TEST MODE" AFTER TACK JUMP.	

* FWD OR BWD KEYS IS AVAILABLE FOR DISPLAY CHANGE IN EVRY TEST .

CIRCUIT DESCRIPTION

9-2 NIAGARA Display



- Figure in odd number.
  Initial : ⑦. ⑦ → ⑫ → ① → ⑦ every change is 200m/s
- Figure in even number
  Initial : ①. ① → ⑫ → ① every change is 200m/s

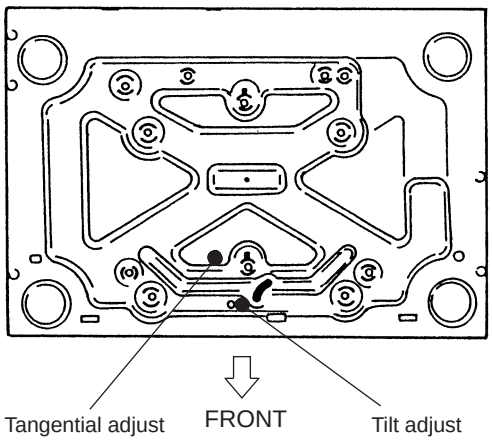
ADJUSTMENT

MECHANISM ADJUSTMENT PROCEDURE

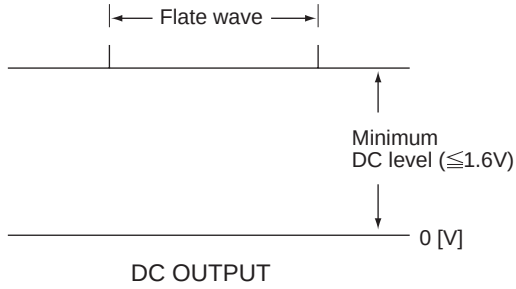
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
< 1 >	TANGENTIAL	DV DISC	Connect an oscillo-scope to TL5206 and chassis GND (DVD main unit : W02-266x-xx)	STILL	Tangential nut	Minimum DC level and flat wave.	(a)
< 2 >	TILT				Tilt nut		

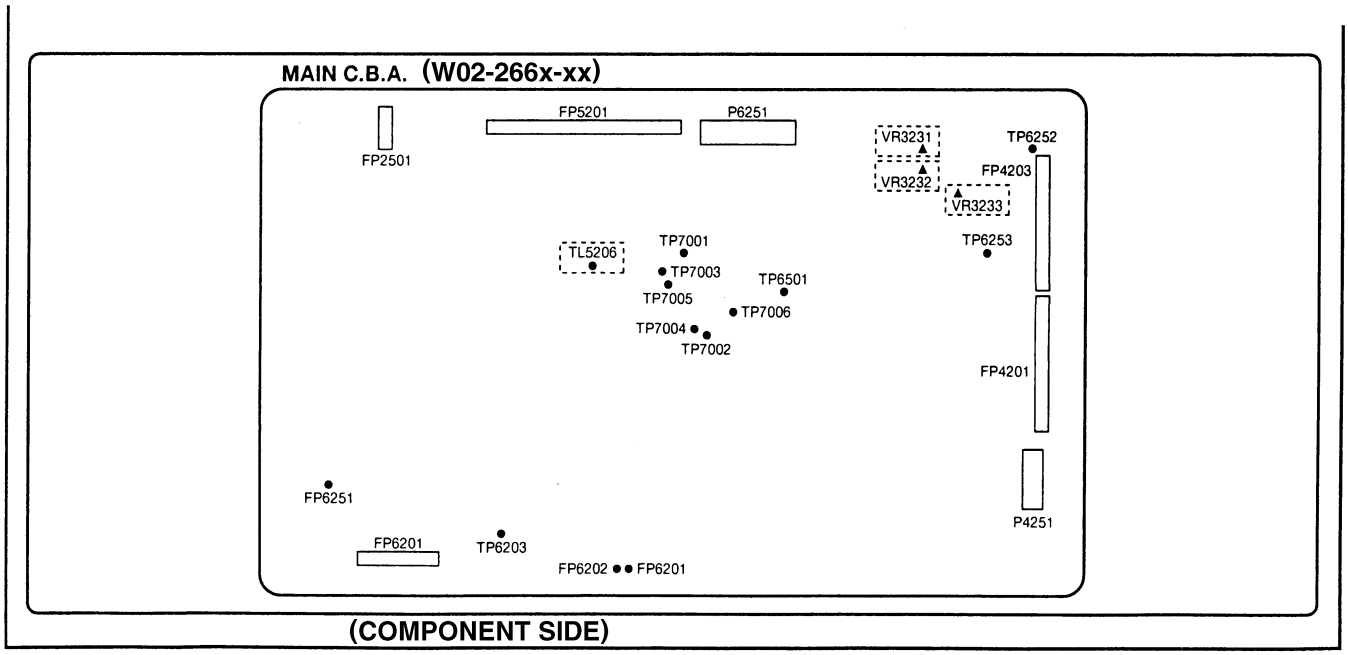
Note : Adjust to repeat No. < 1 > and < 2 > about 2~3 times by a hexagon driver on the bottom chassis of set (DV-2070, DVF-9010 : DVD MECHA.), then complete No. < 2 >.
: After complete adjustment, confirm to play MD, CD and Video CD disc the correct.

(a)



(Bottom view)

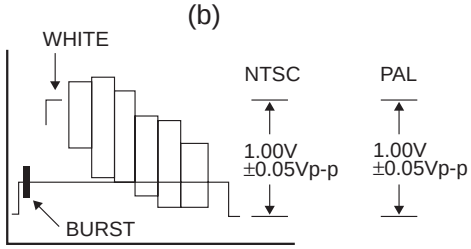




ADJUSTMENT

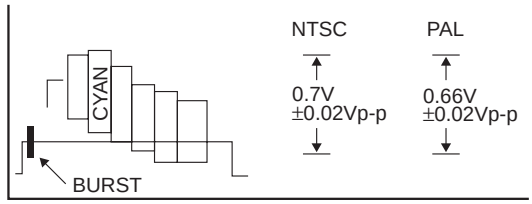
No.	ITEM	INPUT SETTING	OUTPUT SETTING	DVD SETTING	ALIGNMENT POINT	ALING FOR	FIG.
	DVD DISC : 100% and 75% color bar OUTPUT : Video output (composite or component / RCA PIN)						
NTSC							
1	VIDEO LEVEL(Y)	DISC 100%COLOR BAR	Connect the TV monitor and the oscilloscope	STILL	VR3232 (MAIN CBA)	(WHITE) 1.00V ±0.05Vp-p	(b)
2	VIDEO LEVEL(C)	DISC 75%COLOR BAR	Connect the TV monitor and the oscilloscope	STILL	VR3233 (MAIN CBA)	(CYAN) 0.7V ±0.02Vp-p	(c)
3	VIDEO LEVEL (Cb) (Cr)	DISC 100%COLOR BAR	Connect the TV monitor and the oscilloscope	STILL	VR3231 (MAIN CBA)	(Cb) (Cr) 0.648V ±0.03Vp-p	(d)
PAL							
1	VIDEO LEVEL(Y)	DISC 100%COLOR BAR	Connect the TV monitor and the oscilloscope	STILL	VR3232 (MAIN CBA)	(WHITE) 1.00V ±0.05Vp-p	(b)
2	VIDEO LEVEL(C)	DISC 75%COLOR BAR	Connect the TV monitor and the oscilloscope	STILL	VR3233 (MAIN CBA)	(CYAN) 0.66V ±0.02Vp-p	(c)

(b)



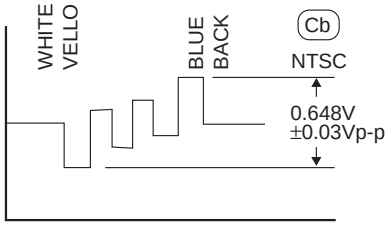
100% COLOR BAR (oscilloscope)

(c)



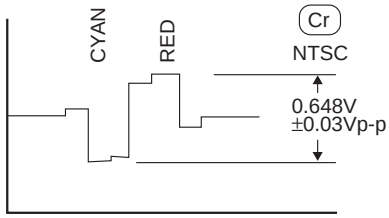
75% COLOR BAR (oscilloscope)

(d)



100% COLOR BAR (oscilloscope)

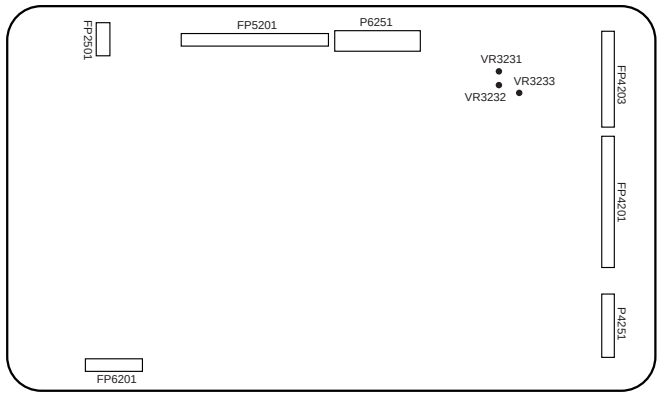
(d)



100% COLOR BAR (oscilloscope)

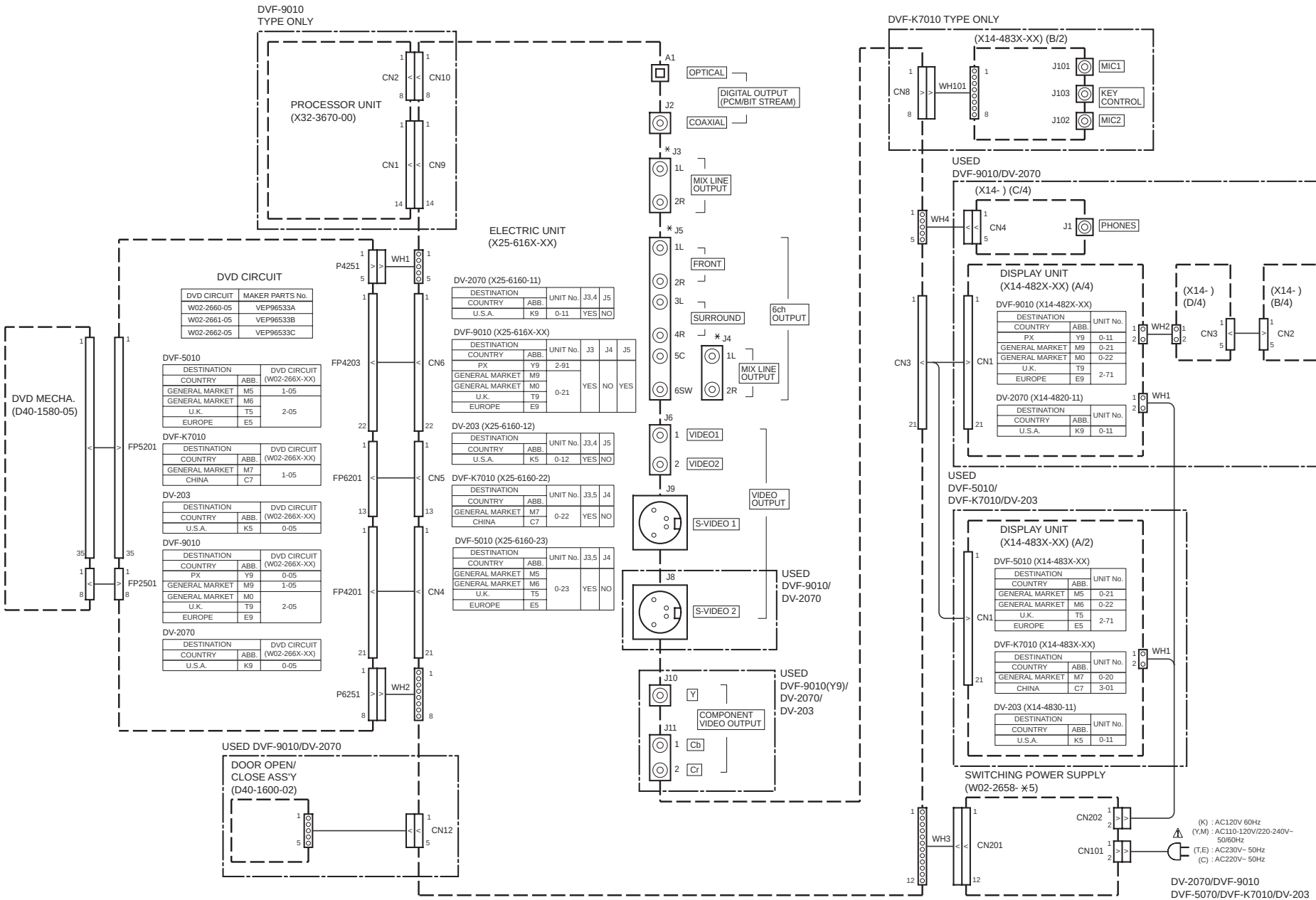
COLOR BAR (TV)

MAIN C.B.A



(COMPONENT SIDE)

WIRING DIAGRAM

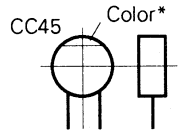


PARTS DESCRIPTIONS

CAPACITORS

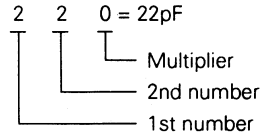
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001µF
103 = 0.01µF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	–80	–150	–220	–330	–470	–750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = –470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10µF – 10 ~ +50
							–20	-20	–0	Less than 4.7µF –10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	–
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	–
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	–

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

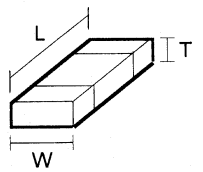
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

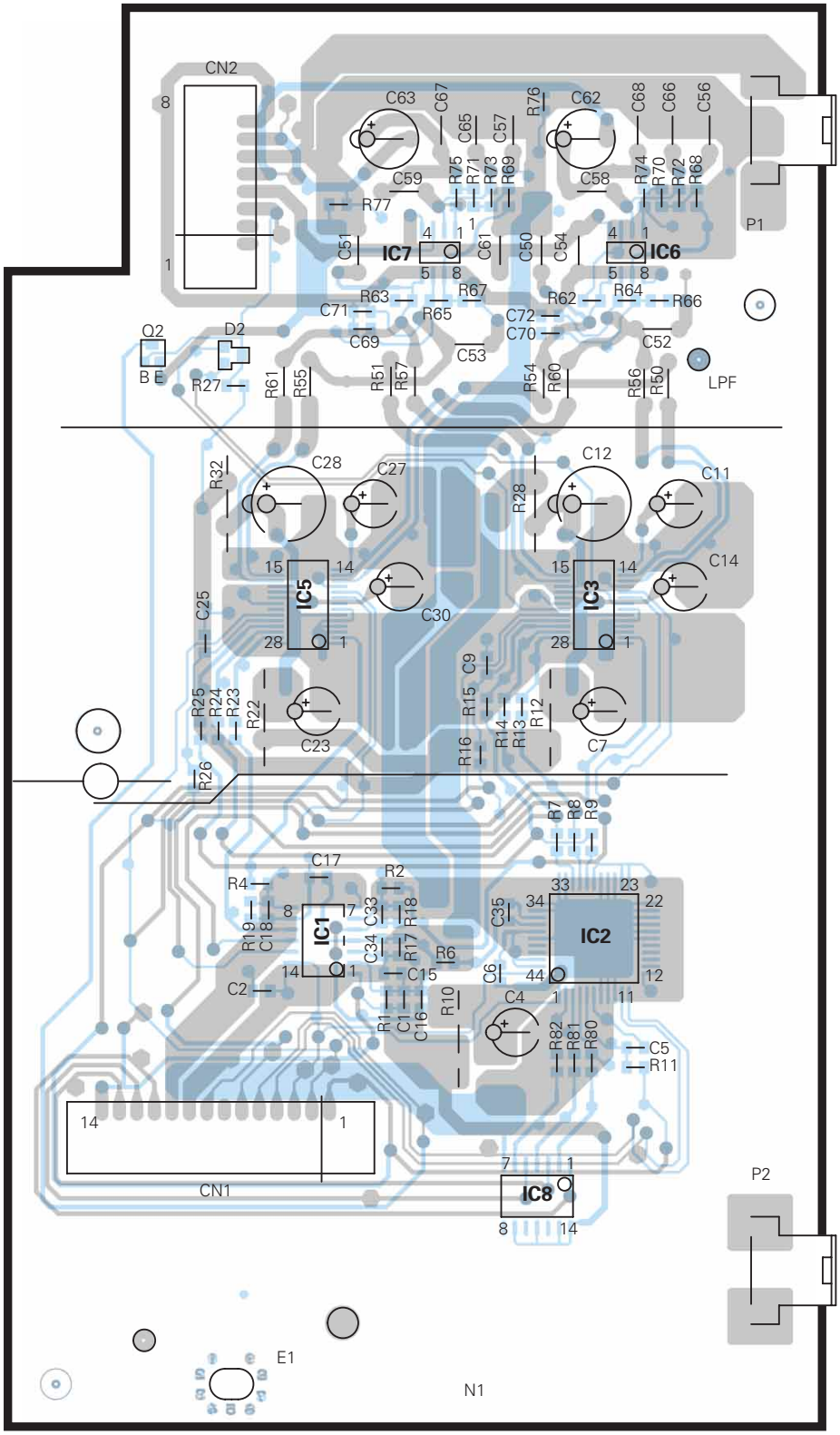
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

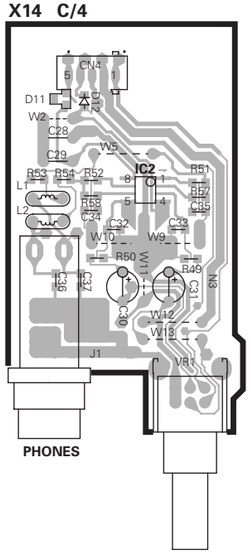
PROCESSOR UNIT
X32-3670-00 (70-1240-12)



Refer to the schematic diagram for the value of resistors and capacitors.

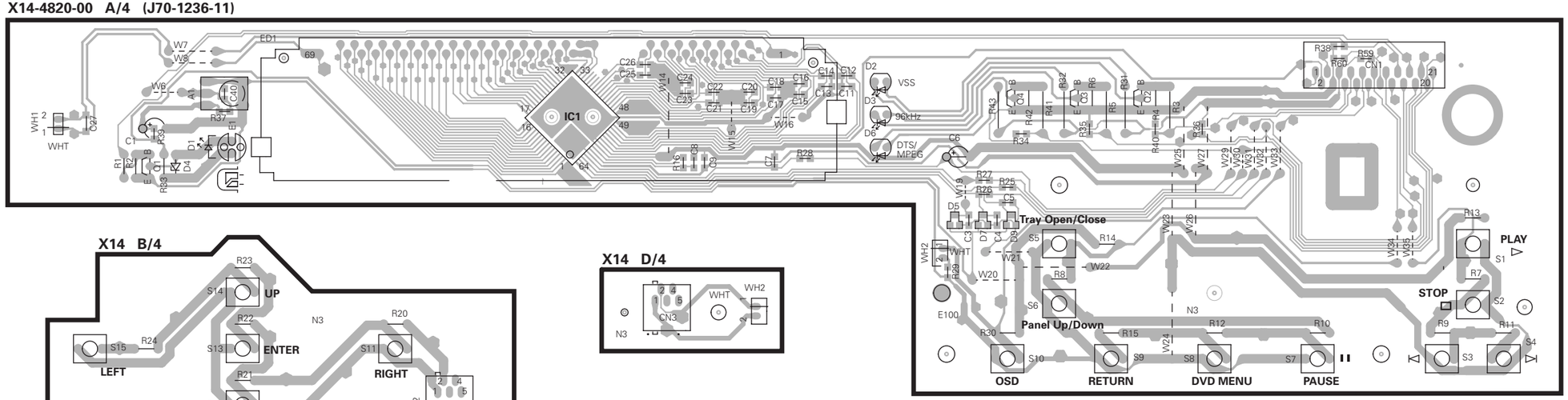
PC BOARD (Component side view)

X14 C/4

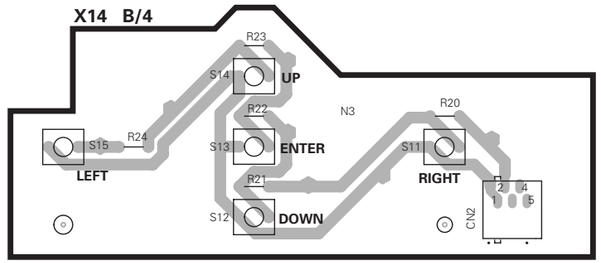


DISPLAY UNIT

X14-4820-00 A/4 (J70-1236-11)

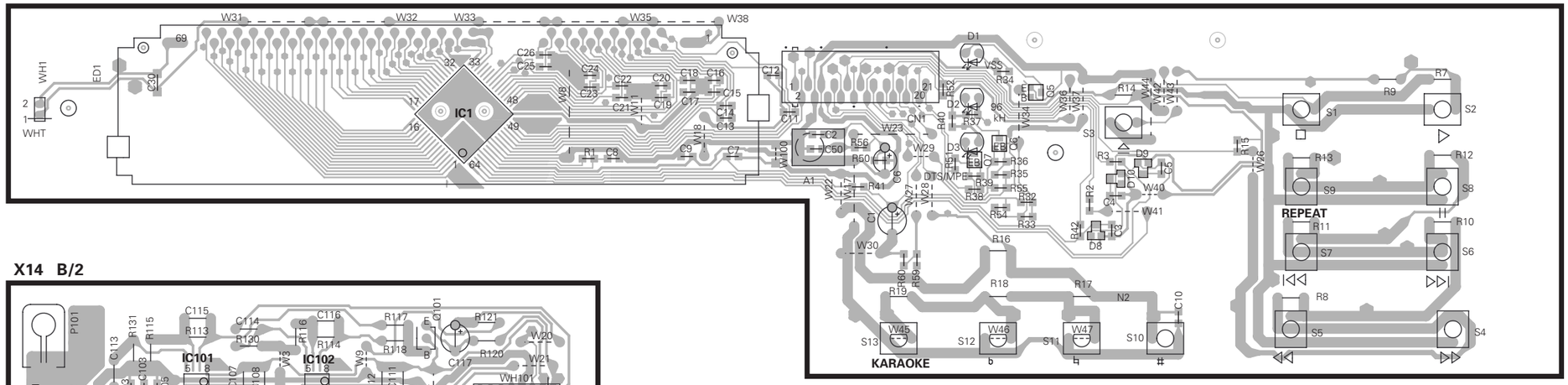


X14 B/4

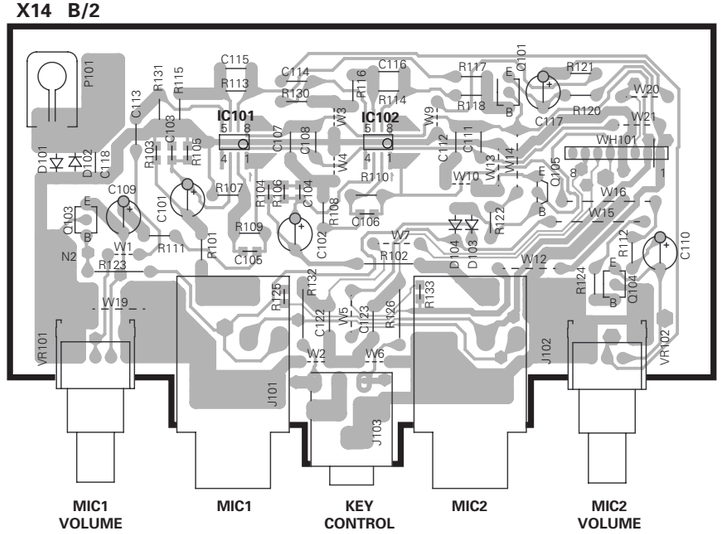


X14 D/4

X14-4830-20 A/2 (J70-1237-11)

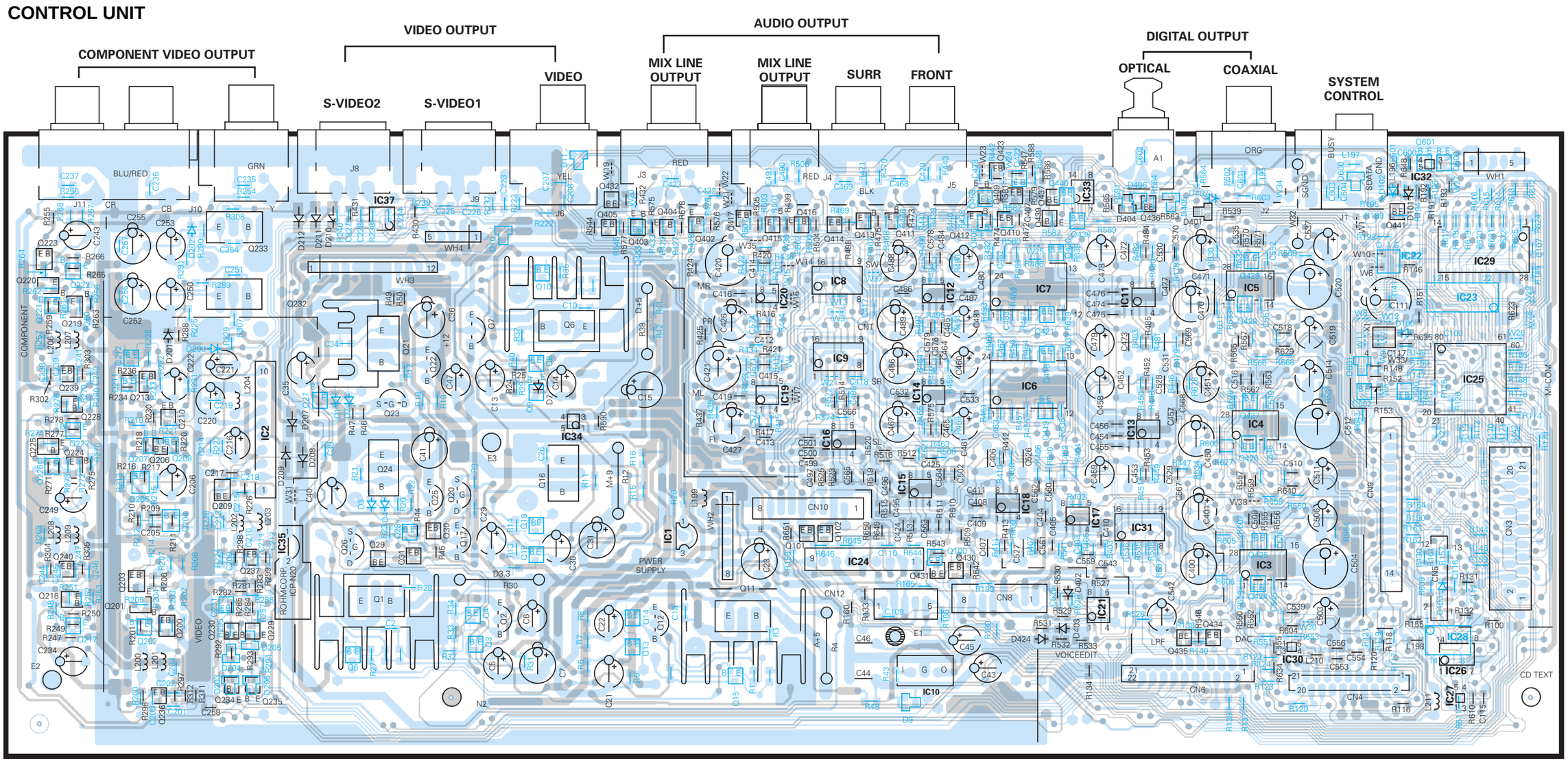


X14 B/2



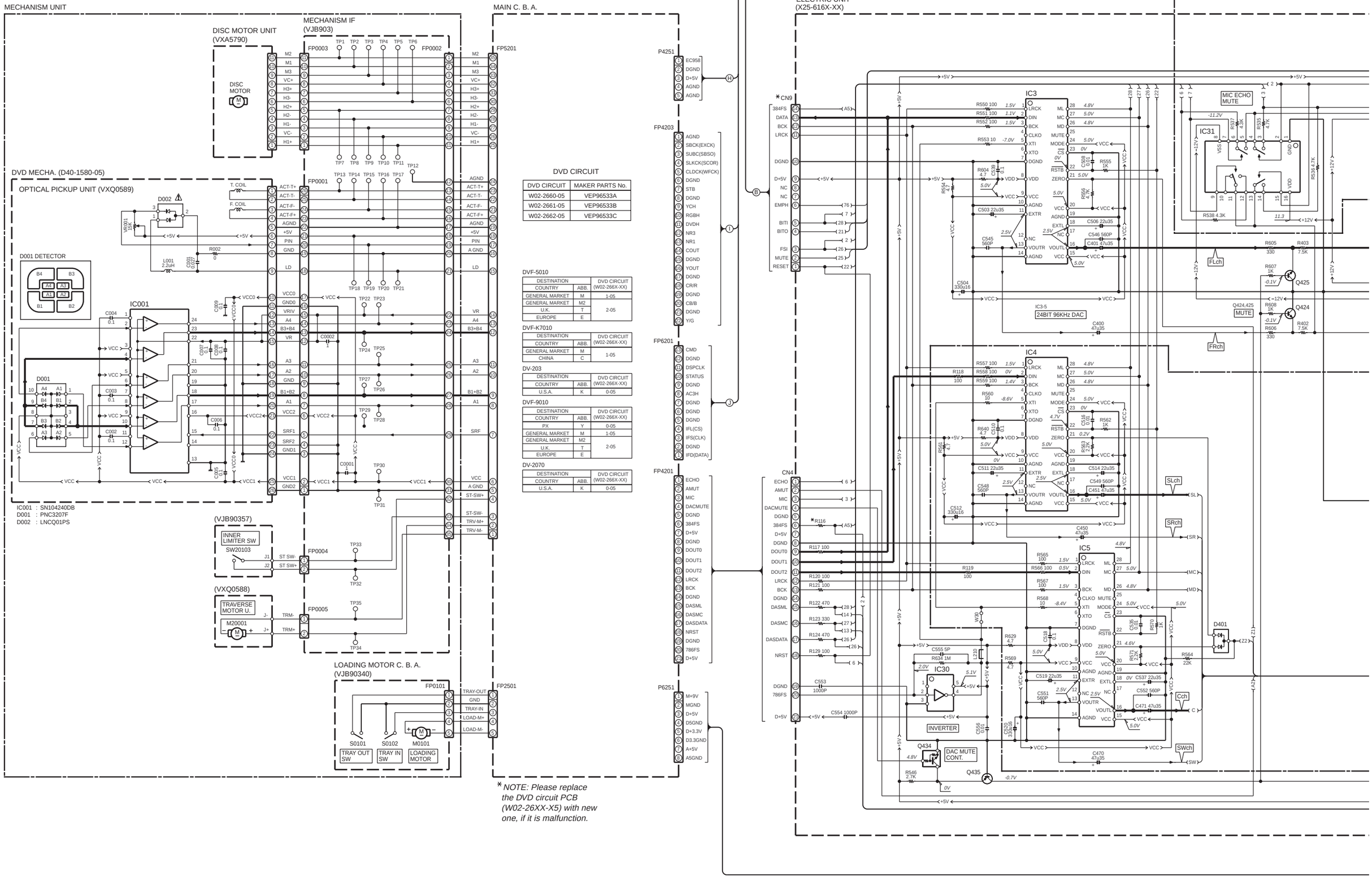
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)



X25-6160-00 (J70-1239-11)

Refer to the schematic diagram for the value of resistors and capacitors.

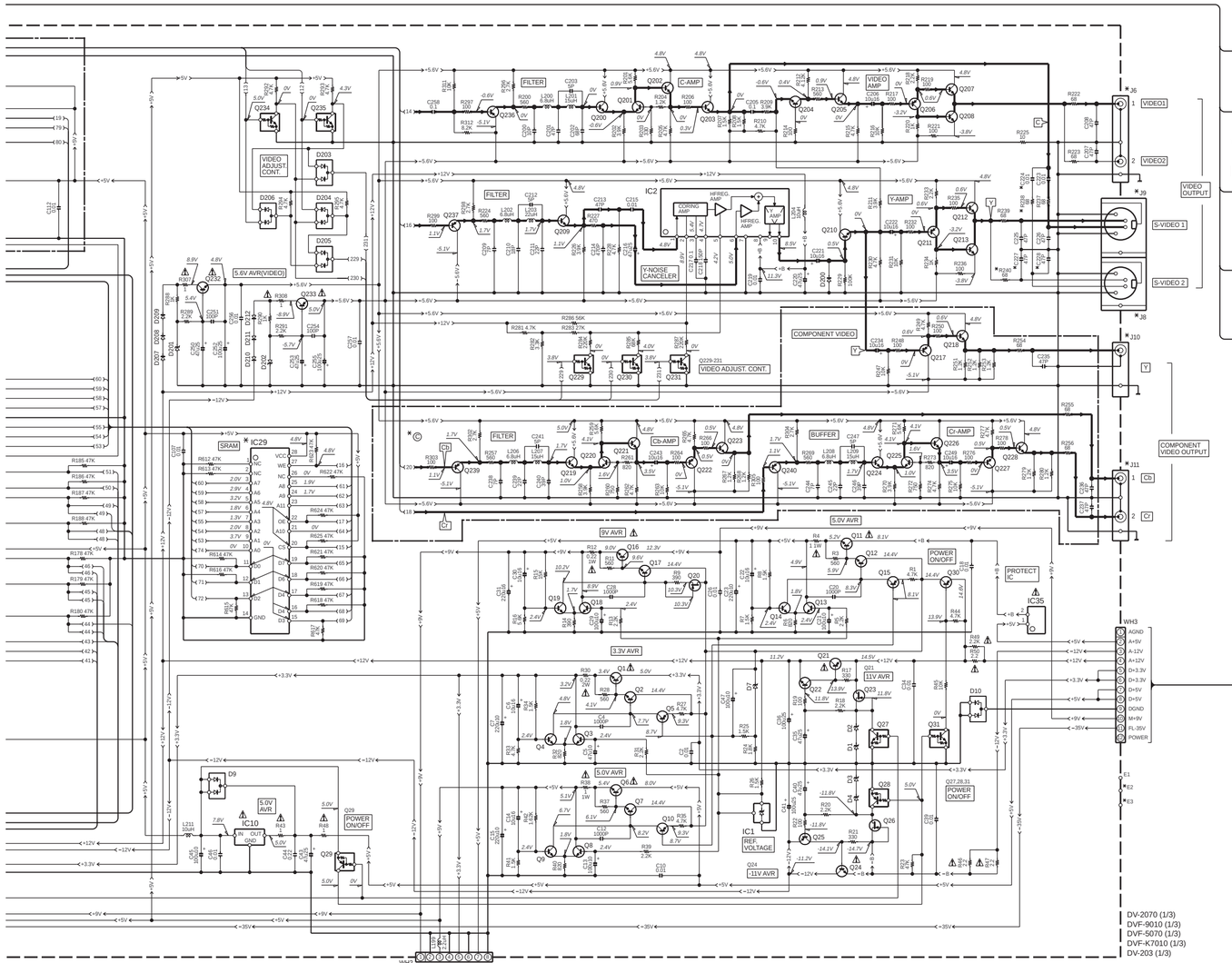

MECHANISM UNIT
MECHANISM IF
(VJB903)
DISC MOTOR UNIT
(VXA5790)
DISC
MOTOR
FP0003
FP0002
FP0001
FP5201
MAIN C. B. A.
DVD MECHA. (D40-1580-05)
OPTICAL PICKUP UNIT (VXQ0589)
D001 DETECTOR
IC001
D001
D002
IC001 : SN104240DB
D001 : PNC3207F
D002 : LNCQ01PS
(VJB90357)
INNER
LIMITER SW
SW20103
FP0004
(VXQ0588)
TRAVERSE
MOTOR U.
M20001
FP0005
LOADING MOTOR C. B. A.
(VJB90340)
FP0101
FP2501
S0101
TRAY OUT
SW
S0102
TRAY IN
SW
M0101
LOADING
MOTOR
DVD CIRCUIT
DVD CIRCUIT
MAKER PARTS No.
W02-2660-05
VEP96533A
W02-2661-05
VEP96533B
W02-2662-05
VEP96533C
DVF-5010
DESTINATION
COUNTRY
ABB.
DVD CIRCUIT (W02-266X-XX)
GENERAL MARKET
M
1-05
GENERAL MARKET
M2
U.K.
T
2-05
EUROPE
E
DVF-K7010
GENERAL MARKET
M
1-05
CHINA
C
DV-203
U.S.A.
K
0-05
DVF-9010
PX
Y
0-05
GENERAL MARKET
M
1-05
GENERAL MARKET
M2
U.K.
T
2-05
EUROPE
E
DV-2070
U.S.A.
K
0-05
NOTE: Please replace the DVD circuit PCB (W02-26XX-X5) with new one, if it is malfunction.
ELECTRIC UNIT
(X25-616X-XX)
CN9
CN4
P4251
FP4203
FP6201
FP4201
P6251
IC3
IC4
IC5
IC31
IC30
24BIT 96KHz DAC
INVERTER
DAC MUTE
CONT.
MIC ECHO
MUTE
MUTE
FLch
FRch
SLch
SRch
Cch
SWch
Q425
Q424
Q434
Q435
D401

IC1	: TL431CLP	
IC2	: M51494L	
IC3-5	: PCM1716E	
IC6,7	: TC9212AP	
IC8,9,31	: TC9214AF	
IC10	: BA17805T or UPC7805AHF	
IC11-20	: NJM4580ED	
IC21,37	: NJM4565M	
IC22	: S-80740AL-A4	
IC23	: NJU3715G	
IC24	: TA8409S	
IC25	: HD6433396A65F	
IC26	: LC89170M	
IC27,30,32	: TC7SHU04FU	
IC28	: TC74HC14AF	
IC29	: N34526SOA-55	
IC33	: TC74VHC08FT	
IC34	: PST9128NR	
IC35	: ICP-20	
Q1,6,11,24,232	: 2SD2012	
Q2,7,12,22	: 2SC1845(F,E)	
Q3,4,8,9,13,14,18,19,202,203,207,208,210,212,213, 218,221,223,226,228,418-421	: 2SC4081(R,S)	
Q5,10,15,30,102,206,211,217,222,227, 236,237,239,240,435	: 2SA1576A(R,S)	
Q16	: 2SC4596(F,E)	
Q17	: 2SC2458(Y,GR) or 2SC3311A(Q,R)	
Q20,23,26	: 2SK246(Y,GR)	
Q21,233	: 2SB1375	
Q25	: 2SA922(F,E)	
Q27,31,100,101,229-231,234,235,430,431,434, 436-440,500	: DTC124EUA	
Q28,29	: DTA114TUA	
Q200,201,204,205,209,219,220,224,225,229	: 2SC2714(O,Y)	
Q402-417,422-429,432,433	: 2SC4213(B)	
Q600	: 2SA1161(M5,M6)	
Q601	: 2SC4177(L5,L6)	
D1,3,201,202	: UDZ6.2B	
D2,4,424	: UDZ5.6B	
D7	: UDZ3.3B	
D9,203,205,401,404	: DAN202U	
D10,11	: DA204U	
D100-103,200,402,403	: MA111	
D204,206,405,406	: DAP202U	
D207-212	: U1BC44	

SIGNAL LINE
GND LINE
+B LINE
-B LINE

U V W X Y Z AA AB AC AD

WH1 EC958 DGND D+5V AGND AGND
INVERTER
DIGITAL
IC32
A1 GND VCC IEC958
OPTICAL
DIGITAL OUTPUT (PCM/BIT STREAM)
J2
COAXIAL
Q600 Q601 C600 0.1 R601 180 R603 22 W34 R602 75 C601 1P
Q402-417 MUTE
Q422,423,432,433 -6dB ATT
W27
J3 Lch Rch
MIX LINE (AUDIO 2) OUTPUT
Q403 Q405 Q433 Q402 Q404 Q432
R427 180 R429 150 R577 1K R578 1K R545 1K R544 1K R426 180 R428 150 R432 820 R433 820
J5 Lch Rch Lch Rch Cch SWch
FRONT
SURR
6ch OUTPUT
Q407 Q409 Q423 Q406 Q408 Q422
R439 180 R441 150 R581 1K R582 1K R547 1K R548 1K R438 180 R440 150 R443 820 R444 820
W37 W38 W21 W22
R467 180 R469 150 R475 1K R474 1K R466 180 R468 150 C469 470P C468 470P
Q413 Q412
J4 1L 2R
AUDIO OUTPUT 1
R501 180 R503 150 R505 1K R504 1K R500 180 R502 150 C491 470P C490 470P
Q417 Q416
DOOR OPEN/CLOSE ASS'Y (D40-1600-02)
LEVER SW (SSS-23)
PH5P(WHT)
ON (CLOSE)
OFF
ON (OPEN)
MPCLOSE GND MPOPEN MO+ MO-
MOTOR (MSN5F095A)
CN6 AGND SBCK(EXCK) SUBC(SBSO) SLKC(SCOR) CLDCK(WFCK) DGND STB DGND YCH RGBH DVDH NR3 NR1 COUT DGND YOUT DGND CR/R DGND CB/B DGND Y/G
R137 1K R138 1K R139 1K R140 1K
CN3 NC FL-35V NC DGND D+5V
STBYLED/VSSLED RESET SHUTL0 KEY0 NC KEY1 REG KEY2 SHUTL1/FLLED DVDLED/PCMLED DCLK REM DDATA 96LED DLATH DTS/MPEG
CN5 CMD DGND DSPCLK STATUS DGND AC3H DGND DGND DGND IFL(CS) IFS(CLK) DGND IFD(DATA)
R127 470 R126 470 R128 470 R130 100 R131 100 R132 100
CN12 MPCLOSE GND MPOPEN MO+ MO-
IC22 RESET IC
D11
IC23 SER. → PAR.
R198 47K R539 100
IC24 DOOR MOTOR DRIVE
CLOSE: 7.6V OPEN: 7.8V
Q100 Q101 Q102
R646 22K R644 100K R650 82 R649 82 R645 5.1K R651 2.7K
C110 0.1 C109 0.1
IC28 INVERTER
D103 R609 39K R611 47K C116 100P C115 10P R610 1M L198
IC27,28
IC27
IC26 CD TEXT
TIMING & SYNCHRONI-ZATION SIGNAL PROTECTION CIRCUIT
CRC CHECKER
CPU INTERFACE
32WORD x 8BIT DUAL PORT RAM
R100 100
TEST
R190 47K R142 47K R144 47K R145 47K R189 22K R112 220 R111 220 R113 220
D100 C100 R146 22K
X1 16MHz R135 4M C117 1000P R151 1M R141 100 C111 4700P
IC25 MAIN u-COM
RES XTAL EXTAL MD1 MD0 NMI STBY VCC DSPCLK STATUS CMD GND NC NC CS WE OE REM DQSY CD/2ch
R150 47K R149 47K R148 47K R147 47K R152 47K R153 47K
BITO/SBUSY SDATA MDRVEO/IFS MDRVEI/IFD PIL/MUTE SL/MIC-MUTE POWER BITL/ECHO-MUTE AVCC M OPEN SW/REMOTE 1 M CLOSE SW/REMOTE 0 KEY0 KEY1 KEY2 SET NC GND SBLED DTS/MPEG
R155 47K R105 330 R104 330 D102 D101 R100 100 R101 100 R154 47K R159 47K R160 47K R161 47K R162 47K R163 47K R164 47K R165 R166 R170 56K R171 R174 47K R196 100K R193 100K
A7 A6 A5 A4 GND A3 A2 A1 CE BB-DEM BB-SF0 MICSW/BB-MUT VOICEEDET/BB-SF1 VCC SHUTSW0/BB-IW0 SHUTSW1/PLLED/BB-IW1 STB/BB-A0 BB-A1 STANBYLED/VSSLED PCMLED/DVDLED
+B +12V −12V +3.3V −35V +9V +5V



DV-2070 (X25-6160-11)

DESTINATION	UNIT No.	A	C	D	F	G	L	E	I	O	P	Q	IC8 9	IC27 29	CN6 10	CN12	R116	R130-132,149,157,159,432,433,442,443 468,469,544,545,547,548,587,589,641	R137-140,148, 158,160,238,240	R165 166	R171
COUNTRY	ABB.																				
U.S.A.	K9	0-11	YES										NO		NO	YES	NO	YES	470	NO					47K	100K

DESTINATION	UNIT No.	C115,224, 227,228	W1,3,9-12 14,27-30	W2,4,13,15-17, 21,22,25-37	Q422,423,432,433, 436,438,440	J2	J3,4	J5	J6	J8	J9	J10	J11	WH4	L198	E2	E3	D405
COUNTRY	ABB.																	
U.S.A.	K9	0-11	YES	NO	YES	NO	E63-1059-05	E63-0175-05	NO	E63-1060-05	YES	E63-0021-05	E63-1061-05	E63-1057-05	YES	L92-0131-05	NO	YES	NO

DVF-9010 (X25-616X-XX)

DESTINATION	UNIT No.	A	B	C	D	E	F	G	L	D	C	E	O	IC8 9	IC27 29	CN6 10	CN12	R116	R587 589	R130-132,149,157,159,432, 433,442,443,544,545,547,548	R137-140,148,158,160, 238,240,587,589	R165 166	R171	R641
COUNTRY	ABB.																							
PX	Y9	2-91								NO	YES		NO		NO			470						NO
GENERAL MARKET	M9									YES	NO	NO		NO	YES	YES	YES	100	YES	NO		47K	270K	YES
GENERAL MARKET	M0	0-21	YES																		YES			
U.K.	T9																							
EUROPE	E9																							

DESTINATION	UNIT No.	C115	C224, 227,228	W1,16, 17,27	W2,13	W2,9-13, 28,29	W3, 14	W4,15,21 23,35-37	W30	Q422,423, 432,433	Q436, 438,440	J2	J3	J4	J5	J6	J8	J9	J10	J11	WH4	L198	E2	E3	D405
COUNTRY	ABB.																								
PX	Y9	2-91	YES			YES	NO	YES												E63-1061-05	E63-1057-05				
GENERAL MARKET	M9																								
GENERAL MARKET	M0	0-21	NO	YES	NO	NO	YES	NO	NO	YES	NO	YES	E63-1059-05	E63-0175-05	NO	E63-1063-05	E63-1060-05	YES	E63-0021-05	NO	NO	YES	L92-0131-05	NO	YES	YES
U.K.	T9																								
EUROPE	E9																								

DV-203 (X25-6160-12)

DESTINATION	UNIT No.	A	C	B	G	E	D	F	H	J	K	L	IC8 9	IC27 29	CN9 10,12	R116	R130-132,149,158,160,238,240,432, 433,442,443,544,545,547,548,587,589,641	R137-140, 148,157,159	R165 166	R171
COUNTRY	ABB.																			
U.S.A.	K5	0-12	YES				NO						NO	YES	NO	470	NO	YES	47K	12K

DESTINATION	UNIT No.	C115	C224, 227,228	W1-3,9-14, 29-30,35-37	W4,15-17, 21,22,27	Q422,423,432,433, 436,438,440	J2	J3,4	J5,8	J6	J9	J10	J11	WH4	L198	E2,3	D405
COUNTRY	ABB.																
U.S.A.	K5	0-12	YES	NO	NO	YES	E63-1052-05	E63-0122-05	NO	E63-0128-05	E63-0014-05	E63-1062-05	E63-1058-05	NO	L92-0075-05	NO	NO

DVF-K7010 (X25-6160-22)

DESTINATION	UNIT No.	A	D	C	B	E	G	F	H	J	K	L	IC8,9 27,29	CN9 10,12	R116,137-140,148, 158,160,238,240,641	R130-132,149,157,159,432,433, 442,443,544,545,547,548,587,589	R165 166	R171
COUNTRY	ABB.																	
CHINA	C7	0-22	NO				NO	NO		NO			YES				3.3K	56K

DESTINATION	UNIT No.	C115,224, 227,228	W1-3,13, 14,27,30	W4,9-12,15-17, 21,22,28,29,35-37	Q422,423,432, 433,436,438,440	J2	J3	J4,8 10,11	J5	J6	J9	WH4	L198	E2	E3	D405
COUNTRY	ABB.															
GENERAL MARKET	M7	0-22	NO	YES	NO	E63-1052-05	E63-0122-05	NO	E63-1064-05	E63-0128-05	E63-0014-05	NO	NO	YES	NO	YES
CHINA	C7				YES											

DVF-5010 (X25-6160-23)

DESTINATION	UNIT No.	A	B	G	L	C	D	F	O	P	J	IC8 9	IC27 29	CN5 10,12	R116	R137-140,148, 157,159,587,589	R130-132,149,158,160,238,240, 432,433,442,443,544,545,547,548,641	R165 166	R171
COUNTRY	ABB.																		
GENERAL MARKET	M5	0-23	YES			NO			NO	YES	NO	470	YES			NO		47K	27K
GENERAL MARKET	M0																		
U.K.	T5																		
EUROPE	E5																		

DESTINATION	UNIT No.	C115	C224, 227,228	W1,4,9-12,15-17, 21,22,28,29,35-37	W2,3,13, 14,27,30	Q422,423, 432,433	Q436, 438,440	J2	J3	J4,8 10,11	J5	J6	J9	WH4	L198	E2,3	D405
COUNTRY	ABB.																
GENERAL MARKET	M5	0-23	YES	NO	NO	YES	NO	E63-1052-05	E63-0122-05	NO	E63-0164-05	E63-0128-05	E63-0014-05	NO	L92-0075-05	NO	YES
GENERAL MARKET	M0																
U.K.	T5																
EUROPE	E5																

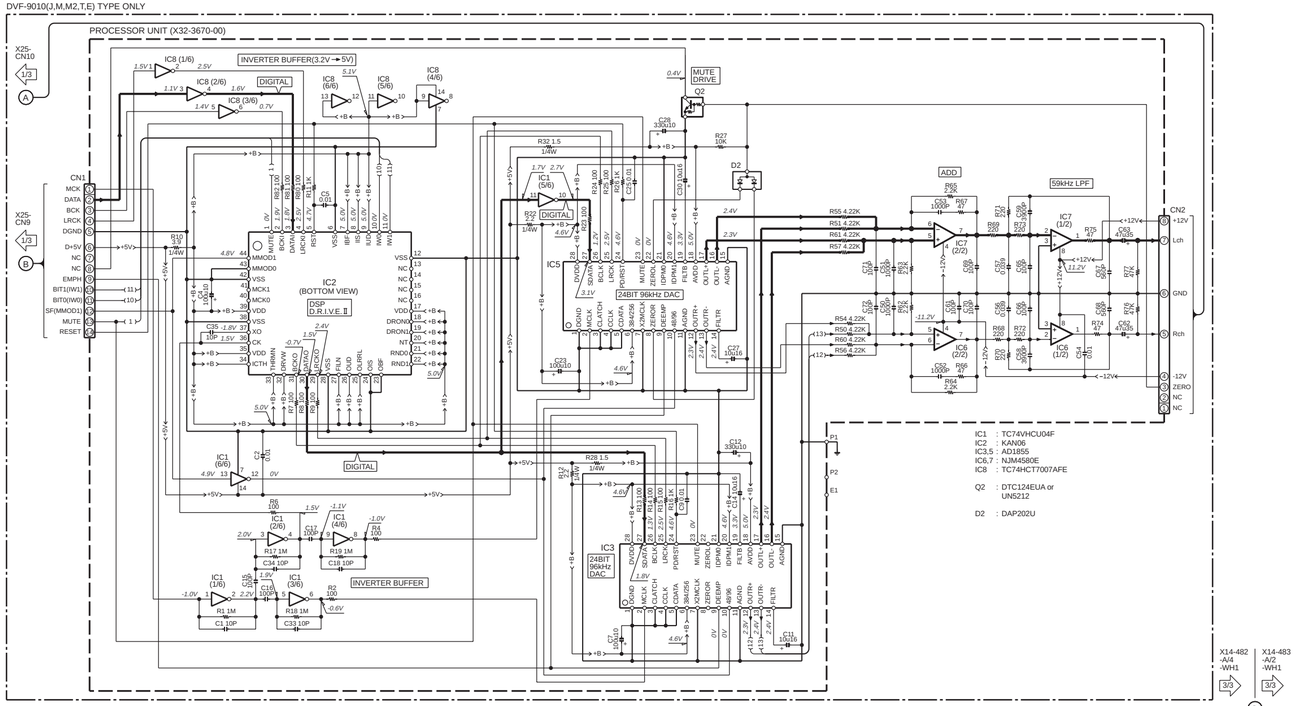
CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).* ⚠ *indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

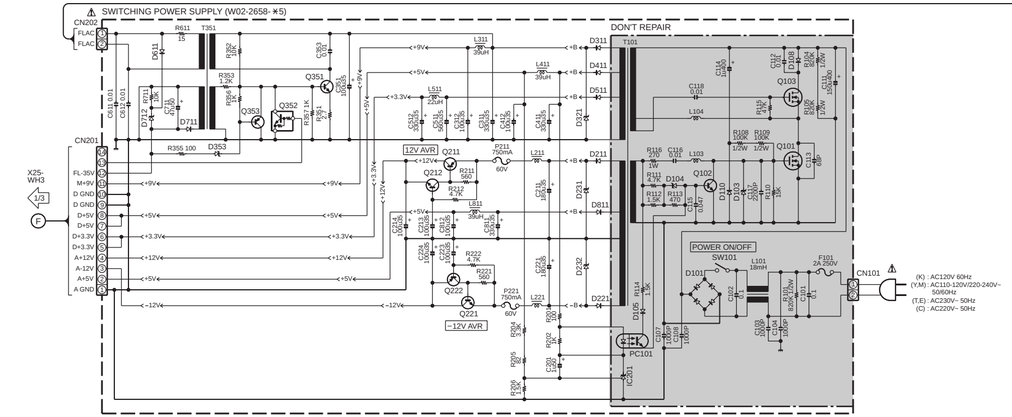
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH

1 2 3 4 5 6 7

DVF-9010(J,M,M2,T,E) TYPE ONLY





Q211 : 2SB1566
Q212 : 2SC1740S
Q221,351 : 2SD2395
Q222,353 : 2SA933S
Q352 : DTC114ES

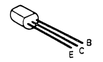
D101 : S1WBA60
D103 : RD18FB2
D104 : MTZJZ.0B
D105,611 : 1SS270A
D108,110 : D1N60
D211,221 : 11EQS10
D231 : MTZJ5.6C
D232 : MTZJ30C
D311 : S2L20U
D321 : MTZJ15B
D353 : MTZJ39B
D411,811 : 21DQ06
D511 : D3S4M
D611 : 1SS270A
D711 : 10ELS2
D712 : MTZJ12A

PC101 : TLP721F

SIGNAL LINE
GND LINE
+B LINE
–B LINE

DV-2070 (2/3)
DVF-9010 (2/3)
DVF-5070 (2/3)
DVF-K7010 (2/3)
DV-203 (2/3)

2SA992
2SC1845



2SC2785

DTC114ES
DTC124ESA
2SA933S
2SC1740S
2SC2458

2SC2714
2SC4081

2SC3311A

2SB1375
2SD2012

NJM4580E

TA8409S

NJM4565M
NJM4580ED

DAN202U

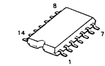
BA17805T
UPC7805AHF

DAP202U
DA204U

UN5212

2SK246

TC74HCT7007AFE
TC74HC14AF
TC74VHCU04F



LC89170M

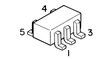
NJU3715G

TL431CLP

S-80740AL-A4

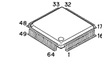
PST9128NR

TC7SHU04FU



ICP-N20

LC75712E



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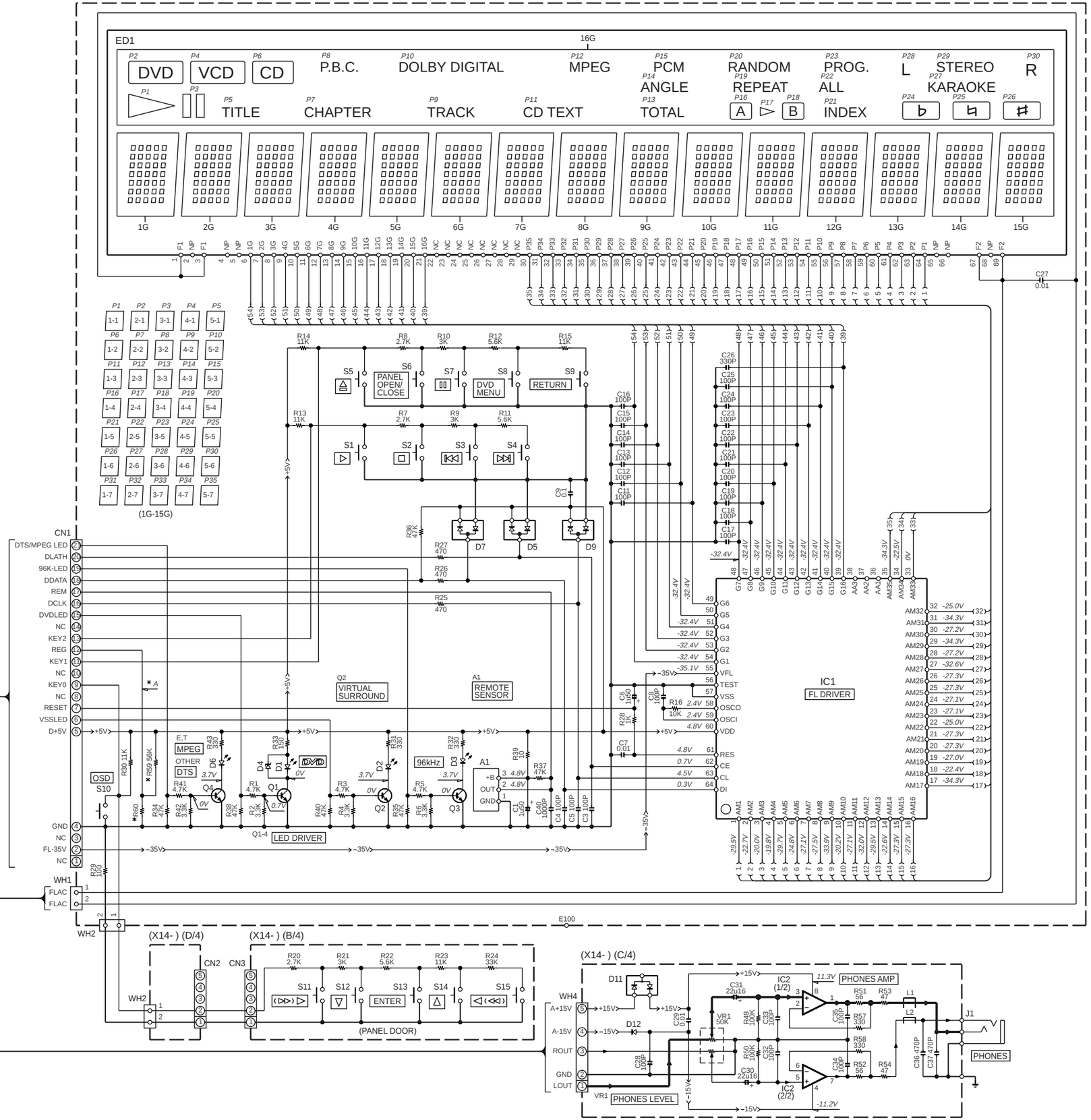
Y22-7820-00

DV-203/2070/DVF-5010/9010/K7010

KENWOOD

DISPLAY UNIT (X14-482X-XX) (A/4) DVF-9010(J,Y,M,M2,T,E), DV-2070(K)



DVF-9010 (X14-482X-XX)

DESTINATION		UNIT No.	R59	R60	A
COUNTRY	ABB.				
PX	Y	0-11	YES	100K	+3.2V
GENERAL MARKET	M	0-21		27K	+1.62V
GENERAL MARKET	M2	0-22	NO		0V
U.K.	T	2-71	YES	56K	+2.5V
EUROPE	E				

DV-2070 (X14-4820-11)

DESTINATION		UNIT No.	R59	R60	A
COUNTRY	ABB.				
U.S.A.	K	0-11	YES	100K	+3.2V

IC1 : LC75712E
IC2 : NJM4580E

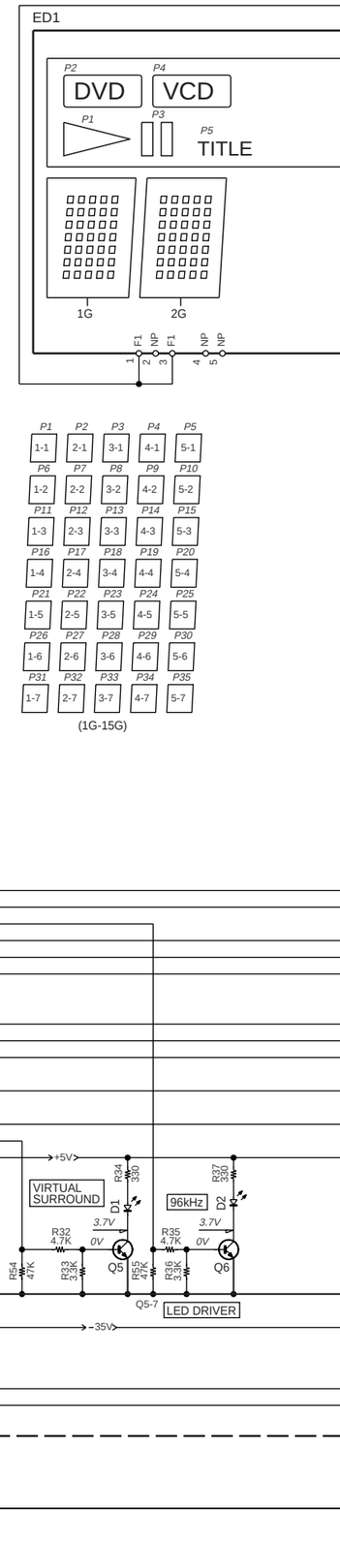
Q1-4 : 2SC1740S(Q,R) or 2SC2785(F,E)

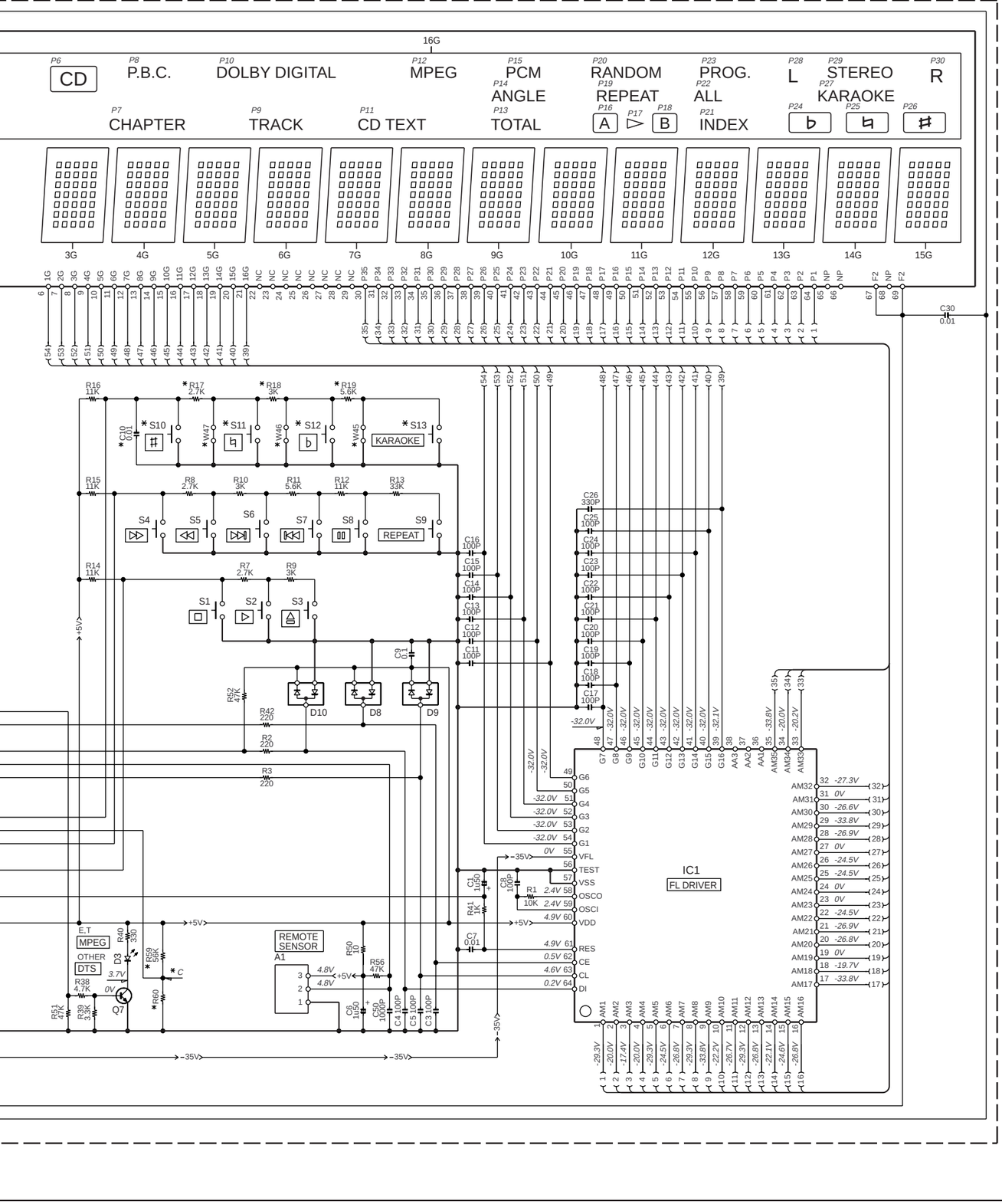
D1 : B30-2526-05
D2,3,6 : B30-2430-05
D4 : RD5.6ES(B2) or HZS5.6N(B2)
D5,7,9 : DA204U
D11 : DAP204U
D12 : MA111

ED1 : 16-ST-20GK

A1 : W02-2571-05

DISPLAY UNIT (X14-483X-XX) (A/2)
DVF-5010(M,M2,T,E), DVF-K7010(M,C), DV-203(K)





DVF-5010 (X14-483X-XX)

DESTINATION		UNIT No.	R17-19	R59	R60	S10-13	C10	W45-47	C
COUNTRY	ABB.								
GENERAL MARKET	M	0-21	NO	YES	27K	NO	NO	NO	+1.62V
GENERAL MARKET	M2	0-22		NO					0V
U.K.	T	2-71		YES	56K				+2.5V
EUROPE	E								

DVF-K7010 (X14-483X-XX)

DESTINATION		UNIT No.	R17-19	R59	R60	S10-13	C10	W45-47	C
COUNTRY	ABB.								
GENERAL MARKET	M	0-20	YES	YES	27K	YES	NO	NO	+1.62V
CHINA	C	3-01			12K				+0.88V

DV-203 (X14-4830-11)

DESTINATION		UNIT No.	R17-19	R59	R60	S10-13	C10	W45-47	C
COUNTRY	ABB.								
U.S.A.	K	0-11	NO	YES	100K	NO	YES	YES	+3.2V

IC1 : LC75712E
IC101,102 : NJM4580ED

Q5-7 : 2SC4081(R,S)
Q101,103,104 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q105 : DTC124ESA

D1-3 : B30-2430-05
D8-10 : DA204U
D101-104 : 1SS133 or HSS104

ED1 : 16-ST-20GK

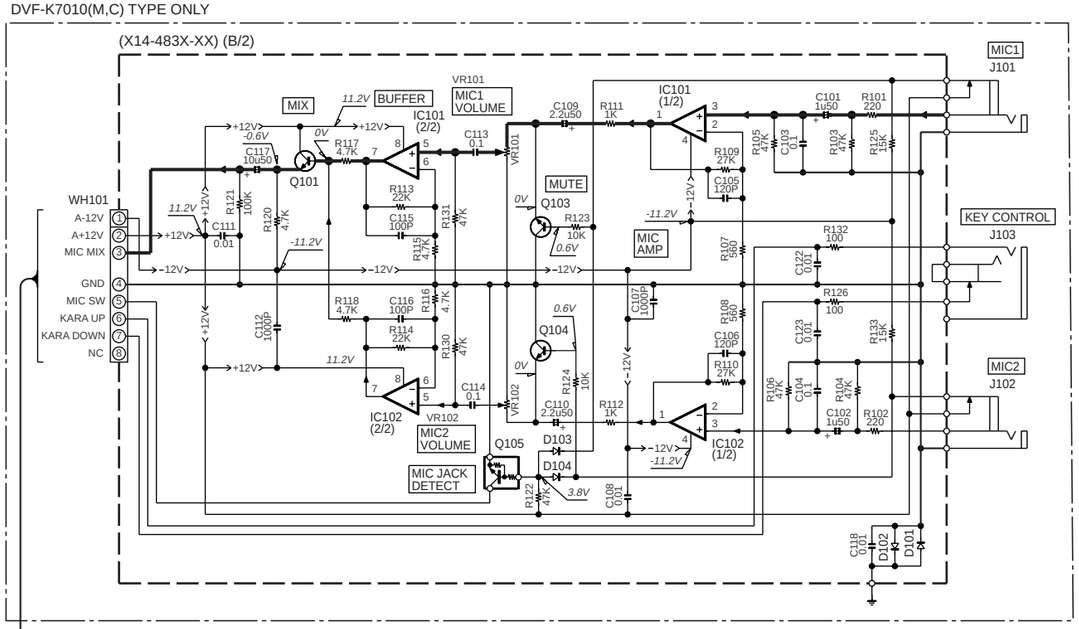
A1 : W02-2571-05

SIGNAL LINE
GND LINE
+B LINE

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DVF-K7010(M,C) TYPE ONLY



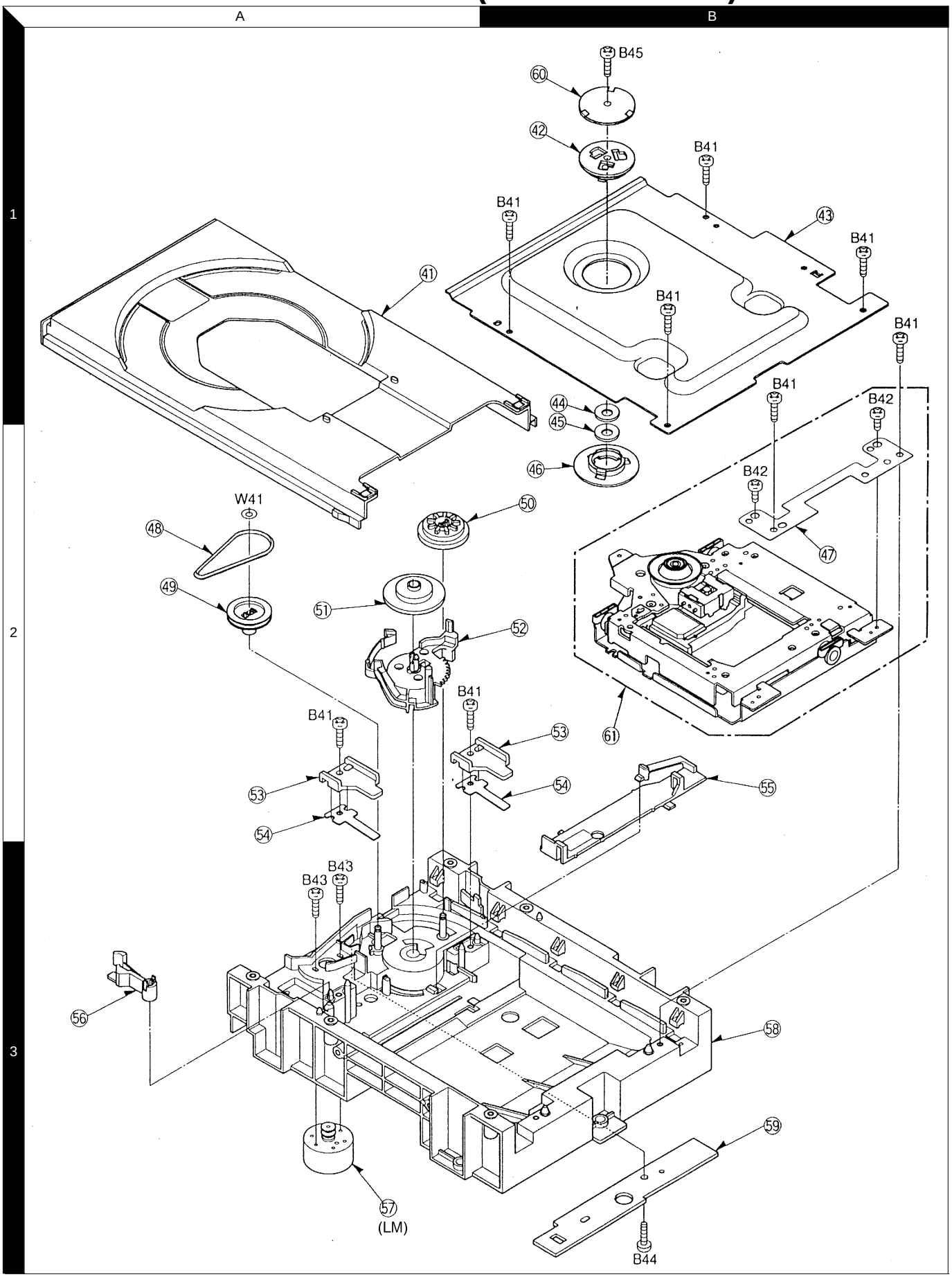
DV-2070 (3/3)
DVF-9010 (3/3)
DVF-5010 (3/3)
DVF-K7010 (3/3)
DV-203 (3/3)

Y22-7820-00

DV-203/2070/DVF-5010/9010/K7010

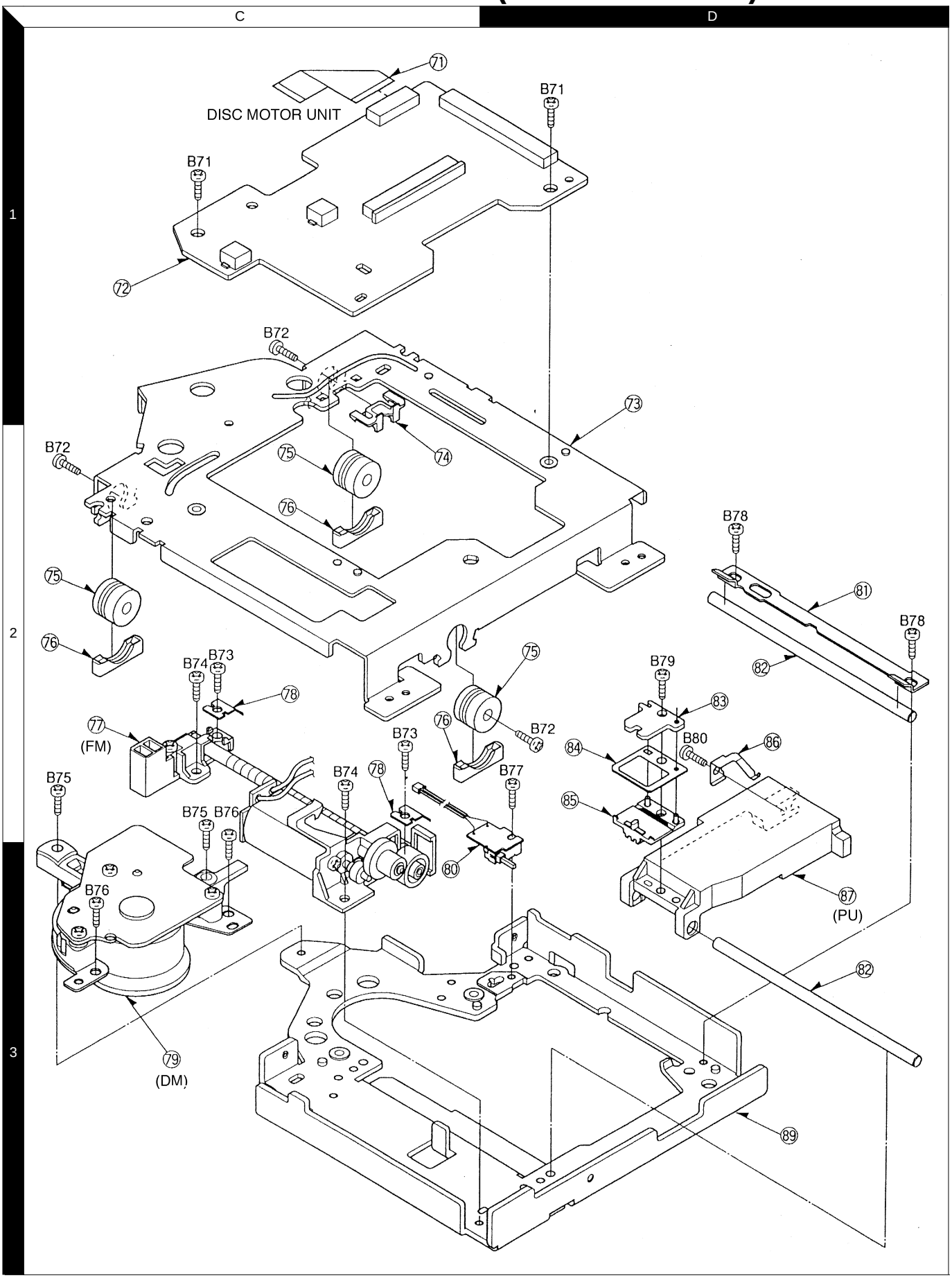
KENWOOD

EXPLODED VIEW (MECHANISM : 1)



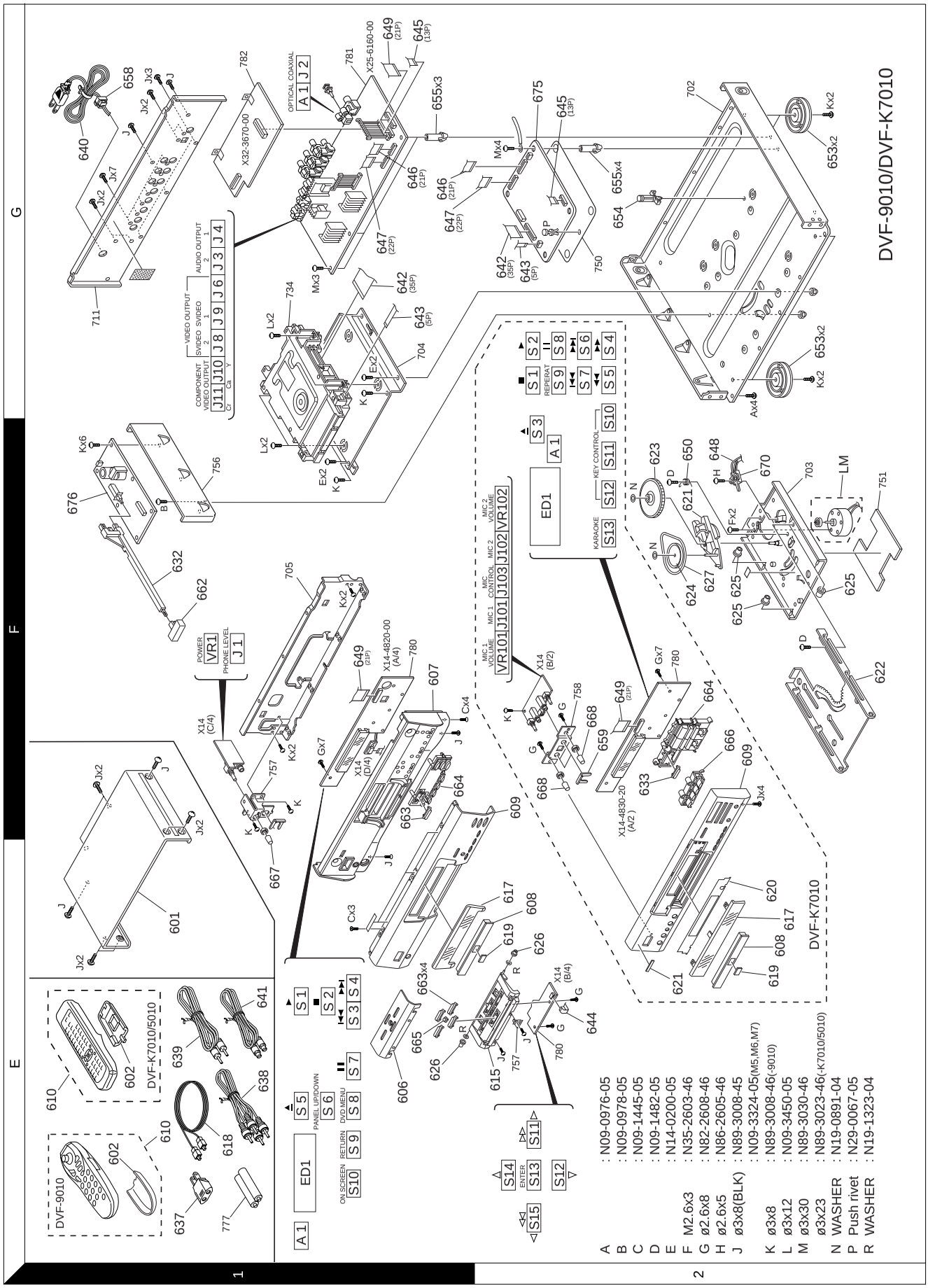
Parts with exploded view numbers larger than 700 are not supplied.

EXPLODED VIEW (MECHANISM : 2)



Parts with exploded view numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

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❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
DV-2070/DVF-9010						
601	1E	✻	A01-3625-01	METALLIC CABINET		
602	1E	✻	A09-1124-08	BATTERY COVER		
606	1E	✻	A21-3693-13	DRESSING PANEL		
607	1F	✻	A22-1809-01	SUB PANEL		
608	2E	✻	A29-1017-03	PANEL TRAY		
609	2F	✻	A60-1474-02	PANEL FRONT	M9	
609	2F	✻	A60-1544-02	PANEL FRONT	K9	
609	2F	✻	A60-1547-02	PANEL FRONT	Y9	
609	2F	✻	A60-1548-02	PANEL FRONT	M0T9E9	
610	1E	✻	A70-1227-05	REMOTE CONTROL ASSY(RC-D0705)		
615	2E	✻	B07-2420-12	ESCUTCHEON		
617	2E	✻	B10-3404-13	FRONT GLASS	K9Y9M9	
617	2E	✻	B10-3427-13	FRONT GLASS	M0T9E9	
618	1E		B19-1529-05	OPTICAL FIBER		
619	2E	✻	B43-0309-04	BADGE		
-			B46-0197-00	QUESTIONNAIRE CARD	K9	
-			B46-0310-03	WARRANTY CARD	T9E9	
-			B46-0319-00	QUESTIONNAIRE CARD	T9	
-			B46-0328-03	WARRANTY CARD	K9Y9	
-			B46-0336-03	WARRANTY CARD	K9	
-			B58-0945-03	CAUTION CARD	T9	
-			B59-1104-00	SERVICE DIRECTORY	Y9	
-		✻	B60-3924-00	INSTRUCTION MANUAL(EN)	K9	
-		✻	B60-3925-00	INSTRUCTION MANUAL(FR)	K9	
-		✻	B60-3926-00	INSTRUCTION MANUAL(EN)	Y9	
-		✻	B60-3927-00	INSTRUCTION MANUAL(EN)	M9	
-		✻	B60-3928-00	INSTRUCTION MANUAL(EN)	M0T9E9	
-		✻	B60-3929-00	INSTRUCTION MANUAL(FR)	E9	
-		✻	B60-3930-00	INSTRUCTION MANUAL(GE)	E9	
-		✻	B60-3931-00	INSTRUCTION MANUAL(NE)	E9	
-		✻	B60-3932-00	INSTRUCTION MANUAL(IT)	E9	
-		✻	B60-4035-00	INSTRUCTION MANUAL(ES)	E9	
-		✻	B60-4036-00	INSTRUCTION MANUAL(TC)	M9	
621	2F		D10-3715-04	ARM ASSY		
622	2F	✻	D10-3809-01	SLIDER		
623	2F		D13-1807-04	GEAR		
624	2F	✻	D13-1881-03	GEAR		
625	2F		D14-0385-14	ROLLER		
626	1E,2E	✻	D14-0395-04	ROLLER		
627	2F		D16-0715-03	BELT		
632	1F	✻	D21-1897-03	EXTENSION SHAFT		
⚠ 637	1E		E03-0115-05	AC PLUG ADAPTER	M9	
638	1E		E30-0505-05	AUDIO CORD		
639	1E		E30-1427-05	AUDIO CORD (VIDEO)		
⚠ 640	1G		E30-2592-15	AC POWER CORD	M9E9	
⚠ 640	1G		E30-2605-05	AC POWER CORD	Y9	
⚠ 640	1G		E30-2650-05	AC POWER CORD	K9	
⚠ 640	1G		E30-2717-05	AC POWER CORD	M0	
⚠ 640	1G		E30-2721-05	AC POWER CORD	T9	
641	1E		E30-2725-05	CORD WITH PLUG (S-VIDEO)		
642	1G,2G		E35-2051-05	FLAT CABLE 35P		
643	1G,2G		E35-2054-05	FLAT CABLE 5P		
644	2E	✻	E35-2178-05	FLAT CABLE		

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❷

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645	1G,2G	✻	E35-2179-05	FLAT CABLE 13P		
646	1G	✻	E35-2180-05	FLAT CABLE 21P,100		
647	1G,2G	✻	E35-2181-05	FLAT CABLE 22P		
648	2F	✻	E35-2195-05	WIRING HARNESS		
649	1F,1G	✻	E35-2213-05	FLAT CABLE 21P,390		
650	2F	✻	G01-4107-05	TORSION SPRING		
-		✻	H10-7498-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7499-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-0568-04	PROTECTION COVER	M9M0	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	K9Y9M9	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	M0E9	
-			H25-0651-04	PROTECTION BAG (0232)	T9	
-			H25-0661-04	PROTECTION BAG	E9	
-			H25-0661-04	PROTECTION BAG	K9Y9T9	
-		✻	H50-3018-14	ITEM CARTON CASE	T9E9	
-		✻	H50-3018-14	ITEM CARTON CASE	Y9M9M0	
-		✻	H50-3019-14	ITEM CARTON CASE	K9	
653	2G	✻	J02-1426-05	FOOT		
654	2G		J19-2808-05	HOLDER		
655	1G,2G		J19-3703-14	UNIT HOLDER		
⚠ 658	1G		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
662	1F	✻	K27-2300-04	KNOB (BUTTON)		
663	1E,1F	✻	K29-7355-04	KNOB		
664	1F	✻	K29-7356-03	KNOB		
665	1E	✻	K29-7358-04	KNOB		
667	1E	✻	K29-7431-04	KNOB		
670	2F		S64-0026-05	LEVER SWITCH		
LM	2F	✻	T42-0922-04	MOTOR ASSY		
675	2G	✻	W02-2658-05	CIRCUIT MODULE(DVD PCB)		
⚠ 676	1F	✻	W02-2660-05	POWER SUPPLY (VEP96533A)	K9Y9	
⚠ 676	1F	✻	W02-2661-05	POWER SUPPLY (VEP96533B)	M9	
⚠ 676	1F	✻	W02-2662-05	POWER SUPPLY (VEP96533C)	M0T9E9	
DV-203/DVF-5010/DVF-K7010						
601	1E	✻	A01-3627-01	METALLIC CABINET	C7	
601	1E	✻	A01-3627-01	METALLIC CABINET	K5T5E5	
601	1E	✻	A01-3652-01	METALLIC CABINET	M5M6M7	
602	1E	✻	A09-1105-05	BATTERY COVER		
608	1E	✻	A29-1018-03	PANEL TRAY	T5E5C7	
608	1E	✻	A29-1027-03	PANEL TRAY	K5	
608	1E	✻	A29-1029-03	PANEL TRAY	M5M6M7	
609	2F	✻	A60-1478-01	PANEL FRONT	C7	
609	2F	✻	A60-1479-01	PANEL FRONT	T5E5	
609	2F	✻	A60-1480-01	PANEL FRONT	K5	
609	2F	✻	A60-1549-01	PANEL FRONT	M7	
609	2F	✻	A60-1550-01	PANEL FRONT	M5	
609	2F	✻	A60-1551-01	PANEL FRONT	M6	
610	1E	✻	A70-1229-05	REMOTE CONTROL ASSY(RC-D0505)	C7M7	
610	1E	✻	A70-1230-05	REMOTE CONTROL ASSY(RC-D0305)	K5T5E5	
610	1E	✻	A70-1230-05	REMOTE CONTROL ASSY(RC-D0305)	M5M6	

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❸

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617	2E	✻	B10-3408-03	FRONT GLASS	K5M5	
617	2E	✻	B10-3410-03	FRONT GLASS	M6T5E5	
618	1E		B19-1529-05	OPTICAL FIBER		
619	2E	✻	B43-0309-04	BADGE		
620	2E	✻	B11-0368-03	COLOR FILTER		
621	2E		B43-0302-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	M6	
-			B46-0197-00	QUESTIONNAIRE CARD	K5	
-			B46-0310-03	WARRANTY CARD	T5E5	
-			B46-0319-00	QUESTIONNAIRE CARD	T5	
-			B46-0326-03	WARRANTY CARD	C7	
-			B46-0328-03	WARRANTY CARD	K5	
-			B46-0336-03	WARRANTY CARD	K5	
-			B58-0945-03	CAUTION CARD	T5	
-			B58-1599-03	CAUTION CARD	C7	
-		✻	B60-3955-00	INSTRUCTION MANUAL(EN,6CH)	C7M7	
-		✻	B60-3956-00	INSTRUCTION MANUAL(SC)	C7	
-		✻	B60-3957-00	INSTRUCTION MANUAL(TC)	M7	
-		✻	B60-3958-00	INSTRUCTION MANUAL(EN,2CH)	K5	
-		✻	B60-3959-00	INSTRUCTION MANUAL(FR,2CH)	K5	
-		✻	B60-3960-00	INSTRUCTION MANUAL(EN,6CH)	M5	
-		✻	B60-3961-00	INSTRUCTION MANUAL(EN,6CH)	M6T5E5	
-		✻	B60-3962-00	INSTRUCTION MANUAL(FR,6CH)	E5	
-		✻	B60-3963-00	INSTRUCTION MANUAL(GE)	E5	
-		✻	B60-3964-00	INSTRUCTION MANUAL(NE)	E5	
-		✻	B60-3965-00	INSTRUCTION MANUAL(IT)	E5	
-		✻	B60-3966-00	INSTRUCTION MANUAL(ES)	E5	
-		✻	B60-3967-00	INSTRUCTION MANUAL(TC)	M5	
632	1F	✻	D21-1898-03	EXTENSION SHAFT		
⚠ 637	1E		E03-0115-05	AC PLUG ADAPTER	M5M7	
638	1E		E30-0505-05	AUDIO CORD		
639	1E		E30-1427-05	AUDIO CORD		
⚠ 640	1G		E30-2592-15	AC POWER CORD	M5E5M7	
⚠ 640	1G		E30-2650-05	AC POWER CORD	K5	
⚠ 640	1G		E30-2717-05	AC POWER CORD	M6	
⚠ 640	1G		E30-2721-05	AC POWER CORD	T5	
⚠ 640	1G		E30-2867-05	AC POWER CORD	C7	
642	1G,2G		E35-2051-05	FLAT CABLE 35P		
643	1G,2G		E35-2054-05	FLAT CABLE 5P		
645	1G,2G		E35-2179-05	FLAT CABLE 13P		
646	1G		E35-2180-05	FLAT CABLE 21P,100		
647	1G		E35-2181-05	FLAT CABLE 22P		
649	1F,1G		E35-2213-05	FLAT CABLE 21P,390		
-		✻	H10-7502-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7503-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-0568-04	PROTECTION COVER	M5	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E5	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	K5M5M6	
-			H25-0651-04	PROTECTION BAG (0232)	T5	
-			H25-0661-04	PROTECTION BAG	E5	
-			H25-0661-04	PROTECTION BAG	K5M6T5	
-		✻	H50-3062-04	ITEM CARTON CASE	M7	
-		✻	H50-3063-04	ITEM CARTON CASE	C7	

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-		✻	H50-3064-04	ITEM CARTON CASE	E5	
-		✻	H50-3064-04	ITEM CARTON CASE	M5M6T5	
-		✻	H50-3065-04	ITEM CARTON CASE	K5	
653	2G		J02-1024-05	FOOT	T5E5	
653	2G	✻	J02-1409-05	FOOT (D=46,H=14.5,T)	K5M5M6	
654	2G		J19-2808-05	HOLDER	C7M7	
655	1G,2G		J19-3722-14	UNIT HOLDER		
⚠ 658	1G		J42-0083-05	POWER CORD BUSHING		
659	2F		J21-3326-05	JACK MOUNTING HARDWARE	C7M7	
-			J61-0307-05	WIRE BAND		
662	1F	✻	K27-2297-04	KNOB (BUTTON)	T5E5C7	
662	1F	✻	K27-2299-04	KNOB (BUTTON)	K5	
662	1F	✻	K27-2313-04	KNOB (BUTTON)	M5M6M7	
663	2F	✻	K29-7360-04	KNOB		
664	2F	✻	K29-7361-02	KNOB	T5E5C7	
664	2F	✻	K29-7426-02	KNOB	K5	
664	2F	✻	K29-7433-02	KNOB	M5M6M7	
666	2F	✻	K29-7369-04	KNOB	C7	
666	2F	✻	K29-7434-04	KNOB	M7	
668	2F		K29-4440-04	KNOB	C7	
668	2F	✻	K29-7432-04	KNOB	M7	
675	2G		W02-2658-05	CIRCUIT MODULE (DVD PCB)		
⚠ 676	1F		W02-2660-05	POWER SUPPLY (VEP96533A)	K5	
⚠ 676	1F		W02-2661-05	POWER SUPPLY (VEP96533B)	M5C7M7	
⚠ 676	1F		W02-2662-05	POWER SUPPLY (VEP96533C)	M6T5E5	

DISPLAY (X14-4820-11) DV-2070/DVF-9010

D1			B30-2526-05	LED(BLUE)			
D2 ,3			B30-2430-05	LED(RED)			
D6			B30-2430-05	LED(RED)			
C1			C90-3253-05	ELECTRO	1.0UF	50WV	
C3 -5			CC73FSL1H101J	CHIP C	100PF	J	
C6			C90-3253-05	ELECTRO	1.0UF	50WV	
C7			CK73FB1H103K	CHIP C	0.010UF	K	
C8			CC73FSL1H101J	CHIP C	100PF	J	
C9			CK73FB1C104K	CHIP C	0.10UF	K	
C11 -25			CC73FSL1H101J	CHIP C	100PF	J	
C26			CC73FSL1H331J	CHIP C	330PF	J	
C27			CK73EB1H103K	CHIP C	0.010UF	K	
C28			CC45FSL1H101J	CERAMIC	100PF	J	
C29			CK45FF1H103Z	CERAMIC	0.010UF	Z	
C30 ,31			C90-3226-05	ELECTRO	22UF	16WV	
C32 -35			CC73FSL1H101J	CHIP C	100PF	J	
C36 ,37			CC73FSL1H471J	CHIP C	470PF	J	
C40			CC73FSL1H102J	CHIP C	1000PF	J	
CN1			E40-4946-05	FLAT CABLE CONNECTOR			
CN2 ,3			E40-4930-05	FLAT CABLE CONNECTOR			
CN4			E40-3249-05	PIN ASSY			
J1			E11-0190-05	PHONE JACK (3P)			
E100			J11-0808-05	WIRE CLAMPER			
L1 ,2			L92-0044-05	FERRITE CORE			

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R16			RK73FB2A103J	CHIP R	10K	J	1/10W		
R25 -27			RK73FB2A471J	CHIP R	470	J	1/10W		
R28			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R29			RK73FB2A101J	CHIP R	100	J	1/10W		
R34 -38			RK73FB2A473J	CHIP R	47K	J	1/10W		
R39			RK73FB2A100J	CHIP R	10	J	1/10W		
R40			RK73FB2A473J	CHIP R	47K	J	1/10W		
R49 ,50			RK73FB2A104J	CHIP R	100K	J	1/10W		
R51 ,52			RK73FB2A560J	CHIP R	56	J	1/10W		
R53 ,54			RK73FB2A470J	CHIP R	47	J	1/10W		
R57 ,58			RK73FB2A331J	CHIP R	330	J	1/10W		
R59			RK73FB2A563J	CHIP R	56K	J	1/10W	K9Y9M9	
R59			RK73FB2A563J	CHIP R	56K	J	1/10W	T9E9	
R60			RK73FB2A104J	CHIP R	100K	J	1/10W	K9Y9	
R60			RK73FB2A273J	CHIP R	27K	J	1/10W	M9	
R60			RK73FB2A563J	CHIP R	56K	J	1/10W	T9E9M0	
VR1			R10-4049-05	POTENTIOMETER					
S1 -15			S70-0031-05	TACT SWITCH					
D4			HZS5.6N(B2)	ZENER DIODE					
D4			RD5.6ES(B2)	ZENER DIODE					
D5			DA204U	DIODE					
D7			DA204U	DIODE					
D9			DA204U	DIODE					
D11			DA204U	DIODE					
D12			MA111	DIODE					
ED1			16-ST-20GK	INDICATOR TUBE					
IC1			LC75712E	MOS-IC					
IC2			NJM4580E	ANALOGUE IC					
Q1 -4			2SC1740S(Q,R)	TRANSISTOR					
Q1 -4			2SC2785(F,E)	TRANSISTOR					
A1			W02-2571-05	OPTIC RECEIVING MODULE					
DISPLAY (X14-4830-11) DV-203/DVF-5010/DVF-K7010									
D1 -3			B30-2430-05	LED(RED)					
C1			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C3 -5			CC73FCH1H101J	CHIP C	100PF	J			
C6			C90-3253-05	ELECTRO	1.0UF	50WV			
C7			CK73FB1H103K	CHIP C	0.010UF	K			
C8			CC73FCH1H101J	CHIP C	100PF	J			
C9			CK73FB1C104K	CHIP C	0.10UF	K			
C10			CK73FB1H103K	CHIP C	0.010UF	K		K5	
C11 -25			CC73FCH1H101J	CHIP C	100PF	J			
C26			CC73FCH1H331J	CHIP C	330PF	J			
C30			CK73EB1H103K	CHIP C	0.010UF	K			
C50			CC73FCH1H102J	CHIP C	1000PF	J			
C101,102			CE04KW1H010M	ELECTRO	1.0UF	50WV		C7M7	
C103,104			CK73FB1C104K	CHIP C	0.10UF	K		C7M7	
C105,106			CC73FSL1H121J	CHIP C	120PF	J		C7M7	
C107			CK45FB1H102K	CERAMIC	1000PF	K		C7M7	
C108			CK45FF1H103Z	CERAMIC	0.010UF	Z		C7M7	
C109,110			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		C7M7	
C111			CK45FF1H103Z	CERAMIC	0.010UF	Z		C7M7	
C112			CK45FB1H102K	CERAMIC	1000PF	K		C7M7	

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C113,114			CQ93FMG1H104J	MYLAR	0.10UF	J		C7M7	
C115,116			CC45FSL1H101J	CERAMIC	100PF	J		C7M7	
C117			CE04KW1H100M	ELECTRO	10UF	50WV		C7M7	
C118			CK45FF1H103Z	CERAMIC	0.010UF	Z		C7M7	
C122,123			CK45FF1H103Z	CERAMIC	0.010UF	Z		C7M7	
CN1			E40-4946-05	FLAT CABLE CONNECTOR					
J101,102			E11-0224-05	PHONE JACK (4P)				C7M7	
J103			E11-0218-05	MINIATURE PHONE JACK				C7M7	
R1			RK73FB2A103J	CHIP R	10K	J	1/10W		
R2 ,3			RK73FB2A221J	CHIP R	220	J	1/10W		
R15			RK73FB2A113J	CHIP R	11K	J	1/10W		
R32			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R33			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R34			RK73FB2A331J	CHIP R	330	J	1/10W		
R35			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R36			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R37			RK73FB2A331J	CHIP R	330	J	1/10W		
R38			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R39			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R40			RK73FB2A331J	CHIP R	330	J	1/10W		
R41			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R42			RK73FB2A221J	CHIP R	220	J	1/10W		
R50			RK73FB2A100J	CHIP R	10	J	1/10W		
R51 ,52			RK73FB2A473J	CHIP R	47K	J	1/10W		
R54 -56			RK73FB2A473J	CHIP R	47K	J	1/10W		
R59			RK73FB2A563J	CHIP R	56K	J	1/10W	K5M5M7	
R59			RK73FB2A563J	CHIP R	56K	J	1/10W	T5E5C7	
R60			RK73FB2A104J	CHIP R	100K	J	1/10W	K5	
R60			RK73FB2A123J	CHIP R	12K	J	1/10W	C7	
R60			RK73FB2A273J	CHIP R	27K	J	1/10W	M5M7	
R60			RK73FB2A563J	CHIP R	56K	J	1/10W	M6T5E5	
R103-106			RK73FB2A473J	CHIP R	47K	J	1/10W	C7M7	
R125			RK73FB2A153J	CHIP R	15K	J	1/10W	C7M7	
R133			RK73FB2A153J	CHIP R	15K	J	1/10W	C7M7	
VR101,102			R05-3021-05	POTENTIOMETER(10K)				C7M7	
W100			R92-0679-05	CHIP R 0 OHM					
S1 -9			S70-0031-05	TACT SWITCH					
S10 -13			S70-0031-05	TACT SWITCH				C7M7	
D8 -10			DA204U	DIODE					
D101-104			HSS104	DIODE				C7M7	
D101-104			1SS133	DIODE				C7M7	
ED1			16-ST-20GK	INDICATOR TUBE					
IC1			LC75712E	MOS-IC					
IC101,102			NJM4580ED	ANALOGUE IC				C7M7	
Q5 -7			2SC4081(R,S)	TRANSISTOR					
Q101			2SC1740S(Q,R)	TRANSISTOR				C7M7	
Q101			2SC2785(F,E)	TRANSISTOR				C7M7	
Q103,104			2SC1740S(Q,R)	TRANSISTOR				C7M7	
Q103,104			2SC2785(F,E)	TRANSISTOR				C7M7	
Q105			DTC124ESA	DIGITAL TRANSISTOR				C7M7	
A1			W02-2571-05	OPTIC RECEIVING MODULE					

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
CONTROL (X25-6160-11)								
C2			CK73FB1H103K	CHIP C	0.010UF	K		
C4			CK45FB1H102K	CERAMIC	1000PF	K		
C5			CE04KW1A470M	ELECTRO	47UF	10WV		
C6			CE04KW1C100M	ELECTRO	10UF	16WV		
C7			CE04KW1A221M	ELECTRO	220UF	10WV		
C10			CK73FB1H103K	CHIP C	0.010UF	K		
C12			CK45FB1H102K	CERAMIC	1000PF	K		
C13			CE04KW1A101M	ELECTRO	100UF	10WV		
C14			CE04KW1C100M	ELECTRO	10UF	16WV		
C15			CE04KW1A221M	ELECTRO	220UF	10WV		
C18			CK73FB1H103K	CHIP C	0.010UF	K		
C20			CQ93FMG1H102J	MYLAR	1000PF	J		
C21			CE04KW1A101M	ELECTRO	100UF	10WV		
C22			CE04KW1C100M	ELECTRO	10UF	16WV		
C23			CE04KW1A221M	ELECTRO	220UF	10WV		
C26			CK73FB1H103K	CHIP C	0.010UF	K		
C28			CK45FB1H102K	CERAMIC	1000PF	K		
C29			CE04KW1A101M	ELECTRO	100UF	10WV		
C30			CE04KW1C100M	ELECTRO	10UF	16WV		
C31			CE04KW1C221M	ELECTRO	220UF	16WV		
C34			CK73FB1H103K	CHIP C	0.010UF	K		
C35			CE04KW1E470M	ELECTRO	47UF	25WV		
C36			CE04KW1E101M	ELECTRO	100UF	25WV		
C39			CK73FB1H103K	CHIP C	0.010UF	K		
C40			CE04KW1E470M	ELECTRO	47UF	25WV		
C41			CE04KW1E101M	ELECTRO	100UF	25WV		
C43			CE04KW1E470M	ELECTRO	47UF	25WV		
C44			CQ93FMG1H224J	MYLAR	0.22UF	J		
C45			CE04KW1A101M	ELECTRO	100UF	10WV		
C46			CQ93FMG1H103J	MYLAR	0.010UF	J		
C47			CE04KW1A101M	ELECTRO	100UF	10WV		
C100			CK73FF1C105Z	CHIP C	1.0UF	Z		
C107			CK73FB1H103K	CHIP C	0.010UF	K		
C109,110			CK73FB1E104K	CHIP C	0.10UF	K	T9E9K9	
C109,110			CK73FB1E104K	CHIP C	0.10UF	K	Y9M9M0	
C111			CE04KW1A471M	ELECTRO	470UF	10WV		
C112			CK73FB1H103K	CHIP C	0.010UF	K	K5T5E5	
C112			CK73FB1H103K	CHIP C	0.010UF	K	M5M6	
C112			CK73FB1H103K	CHIP C	0.010UF	K	T9E9K9	
C112			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C115			CC73FSL1H100D	CHIP C	10PF	D	K5T5E5	
C115			CC73FSL1H100D	CHIP C	10PF	D	K9Y9	
C115			CC73FSL1H100D	CHIP C	10PF	D	M5M6	
C116			CC73FSL1H102J	CHIP C	1000PF	J	E5M5M6	
C116			CC73FSL1H102J	CHIP C	1000PF	J	E9K9Y9	
C116			CC73FSL1H102J	CHIP C	1000PF	J	M9M0T9	
C116			CC73FSL1H102J	CHIP C	1000PF	J	T5K5	
C117			CC73FSL1H102J	CHIP C	1000PF	J		
C200			CC73FSL1H100D	CHIP C	10PF	D		
C201			CC73FSL1H470J	CHIP C	47PF	J		
C202			CC73FSL1H680J	CHIP C	68PF	J		
C203			CC73FSL1H050C	CHIP C	5.0PF	C		
C205			CK73FB1E104K	CHIP C	0.10UF	K		
C206			CE04KW1C100M	ELECTRO	10UF	16WV		
C207,208			CC73FSL1H470J	CHIP C	47PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C209			CC73FSL1H070D	CHIP C	7.0PF	D		
C210			CC73FSL1H180J	CHIP C	18PF	J		
C211			CC73FSL1H220J	CHIP C	22PF	J		
C212			CC73FSL1H050C	CHIP C	5.0PF	C		
C213			CC73FSL1H470J	CHIP C	47PF	J		
C214			CC73FSL1H471J	CHIP C	470PF	J		
C215			CK73FB1H103K	CHIP C	0.010UF	K		
C216			CE04KW1E470M	ELECTRO	47UF	25WV		
C217			CK73FB1E104K	CHIP C	0.10UF	K		
C218			CC73FSL1H151J	CHIP C	150PF	J		
C219			CK73FB1H103K	CHIP C	0.010UF	K		
C220			CE04KW1E470M	ELECTRO	47UF	25WV		
C221,222			CE04KW1C100M	ELECTRO	10UF	16WV		
C223			CK73FB1H103K	CHIP C	0.010UF	K		
C224			CK73FB1H103K	CHIP C	0.010UF	K	E9K9Y9	
C224			CK73FB1H103K	CHIP C	0.010UF	K	M9M0T9	
C225,226			CC73FSL1H470J	CHIP C	47PF	J		
C227,228			CC73FSL1H470J	CHIP C	47PF	J	E9K9Y9	
C227,228			CC73FSL1H470J	CHIP C	47PF	J	M9M0T9	
C234			CE04KW1C100M	ELECTRO	10UF	16WV	K5K9Y9	
C235-237			CC73FSL1H470J	CHIP C	47PF	J	K5K9Y9	
C238			CC73FSL1H070D	CHIP C	7.0PF	D	K5K9Y9	
C239			CC73FSL1H220J	CHIP C	22PF	J	K5K9Y9	
C240			CC73FSL1H390J	CHIP C	39PF	J	K5K9Y9	
C241			CC73FSL1H050C	CHIP C	5.0PF	C	K5K9Y9	
C243			CE04KW1C100M	ELECTRO	10UF	16WV	K5K9Y9	
C244			CC73FSL1H070D	CHIP C	7.0PF	D	K5K9Y9	
C245			CC73FSL1H220J	CHIP C	22PF	J	K5K9Y9	
C246			CC73FSL1H390J	CHIP C	39PF	J	K5K9Y9	
C247			CC73FSL1H050C	CHIP C	5.0PF	C	K5K9Y9	
C249			CE04KW1C100M	ELECTRO	10UF	16WV	K5K9Y9	
C250			CE04KW1E470M	ELECTRO	47UF	25WV		
C251			CC73FSL1H101J	CHIP C	100PF	J		
C252			CE04KW1E101M	ELECTRO	100UF	25WV		
C253			CE04KW1E470M	ELECTRO	47UF	25WV		
C254			CC73FSL1H101J	CHIP C	100PF	J		
C255			CE04KW1E101M	ELECTRO	100UF	25WV		
C256,257			CK73FB1H103K	CHIP C	0.010UF	K		
C258			CK73FB1E104K	CHIP C	0.10UF	K		
C400,401			CE04KW1V470M	ELECTRO	47UF	35WV		
C402-405			CC73FSL1H101J	CHIP C	100PF	J		
C406,407			CQ93FMG1H392J	MYLAR	3900PF	J		
C408-410			CC73FSL1H101J	CHIP C	100PF	J		
C411			CK73FB1H103K	CHIP C	0.010UF	K		
C412-415			CC73FSL1H101J	CHIP C	100PF	J		
C416			CK73FB1H103K	CHIP C	0.010UF	K		
C417,418			CC73FSL1H101J	CHIP C	100PF	J		
C419			CK73FB1H103K	CHIP C	0.010UF	K		
C420,421			CE04KW1E221M	ELECTRO	220UF	25WV		
C422,423			CC73FSL1H471J	CHIP C	470PF	J		
C424,425			CC73FSL1H220J	CHIP C	22PF	J	E5C7M7	
C424,425			CC73FSL1H220J	CHIP C	22PF	J	M5M6T5	
C424,425			CC73FSL1H220J	CHIP C	22PF	J	T9E9	
C424,425			CC73FSL1H220J	CHIP C	22PF	J	Y9M9M0	
C426,427			CE04KW1A221M	ELECTRO	220UF	10WV	E5C7M7	

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C426,427			CE04KW1A221M	ELECTRO	220UF	10WV	M5M6T5	
C426,427			CE04KW1A221M	ELECTRO	220UF	10WV	T9E9K9	
C426,427			CE04KW1A221M	ELECTRO	220UF	10WV	Y9M9M0	
C428,429			CC73FSL1H471J	CHIP C	470PF	J	E5C7M7	
C428,429			CC73FSL1H471J	CHIP C	470PF	J	M5M6T5	
C428,429			CC73FSL1H471J	CHIP C	470PF	J	T9E9	
C428,429			CC73FSL1H471J	CHIP C	470PF	J	Y9M9M0	
C450,451			CE04KW1V470M	ELECTRO	47UF	35WV	E5C7M7	
C450,451			CE04KW1V470M	ELECTRO	47UF	35WV	M5M6T5	
C450,451			CE04KW1V470M	ELECTRO	47UF	35WV	T9E9	
C450,451			CE04KW1V470M	ELECTRO	47UF	35WV	Y9M9M0	
C452,453			CC45FSL1H221J	CERAMIC	220PF	J	E5C7M7	
C452,453			CC45FSL1H221J	CERAMIC	220PF	J	M5M6T5	
C452,453			CC45FSL1H221J	CERAMIC	220PF	J	T9E9	
C452,453			CC45FSL1H221J	CERAMIC	220PF	J	Y9M9M0	
C454,455			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C454,455			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C454,455			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C454,455			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C456			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C456			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C456			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C456			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C457			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C457			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C457			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C457			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C458-461			CE04KW1C100M	ELECTRO	10UF	16WV	E5C7M7	
C458-461			CE04KW1C100M	ELECTRO	10UF	16WV	M5M6T5	
C458-461			CE04KW1C100M	ELECTRO	10UF	16WV	T9E9	
C458-461			CE04KW1C100M	ELECTRO	10UF	16WV	Y9M9M0	
C462-465			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C462-465			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C462-465			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C462-465			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C466,467			CE04KW1A221M	ELECTRO	220UF	10WV	E5C7M7	
C466,467			CE04KW1A221M	ELECTRO	220UF	10WV	M5M6T5	
C466,467			CE04KW1A221M	ELECTRO	220UF	10WV	T9E9	
C466,467			CE04KW1A221M	ELECTRO	220UF	10WV	Y9M9M0	
C468,469			CC73FSL1H471J	CHIP C	470PF	J	E5C7M7	
C468,469			CC73FSL1H471J	CHIP C	470PF	J	M5M6T5	
C468,469			CC73FSL1H471J	CHIP C	470PF	J	T9E9	
C468,469			CC73FSL1H471J	CHIP C	470PF	J	Y9M9M0	
C470,471			CE04KW1V470M	ELECTRO	47UF	35WV	E5C7M7	
C470,471			CE04KW1V470M	ELECTRO	47UF	35WV	M5M6T5	
C470,471			CE04KW1V470M	ELECTRO	47UF	35WV	T9E9	
C470,471			CE04KW1V470M	ELECTRO	47UF	35WV	Y9M9M0	
C472,473			CC45FSL1H221J	CERAMIC	220PF	J	E5C7M7	
C472,473			CC45FSL1H221J	CERAMIC	220PF	J	M5M6T5	
C472,473			CC45FSL1H221J	CERAMIC	220PF	J	T9E9	
C472,473			CC45FSL1H221J	CERAMIC	220PF	J	Y9M9M0	
C474,475			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C474,475			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C474,475			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C474,475			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	

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⑩

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C476			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C476			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C476			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C476			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C477			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C477			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C477			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C477			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C478-481			CE04KW1C100M	ELECTRO	10UF	16WV	E5C7M7	
C478-481			CE04KW1C100M	ELECTRO	10UF	16WV	M5M6T5	
C478-481			CE04KW1C100M	ELECTRO	10UF	16WV	T9E9	
C478-481			CE04KW1C100M	ELECTRO	10UF	16WV	Y9M9M0	
C482-485			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C482-485			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C482-485			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C482-485			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C486			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C486			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C486			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C486			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C487			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C487			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C487			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C487			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C488,489			CE04KW1A221M	ELECTRO	220UF	10WV	E5C7M7	
C488,489			CE04KW1A221M	ELECTRO	220UF	10WV	M5M6T5	
C488,489			CE04KW1A221M	ELECTRO	220UF	10WV	T9E9	
C488,489			CE04KW1A221M	ELECTRO	220UF	10WV	Y9M9M0	
C490,491			CC73FSL1H471J	CHIP C	470PF	J		
C495,496			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C495,496			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C495,496			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C495,496			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C497,498			CC73FSL1H331J	CHIP C	330PF	J	E5C7M7	
C497,498			CC73FSL1H331J	CHIP C	330PF	J	M5M6T5	
C497,498			CC73FSL1H331J	CHIP C	330PF	J	T9E9	
C497,498			CC73FSL1H331J	CHIP C	330PF	J	Y9M9M0	
C499,500			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C499,500			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C499,500			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C499,500			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C501			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C501			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C501			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C501			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C502			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C502			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C502			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C502			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C503			CE04KW1V220M	ELECTRO	22UF	35WV		
C504			CE04KW1C331M	ELECTRO	330UF	16WV		
C506			CE04KW1V220M	ELECTRO	22UF	35WV		
C508			CK73FB1H103K	CHIP C	0.010UF	K		
C510			CK73FB1E104K	CHIP C	0.10UF	K	E5C7M7	
C510			CK73FB1E104K	CHIP C	0.10UF	K	M5M6T5	

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C510			CK73FB1E104K	CHIP C	0.10UF	K	T9E9	
C510			CK73FB1E104K	CHIP C	0.10UF	K	Y9M9M0	
C511			CE04KW1V220M	ELECTRO	22UF	35WV	E5C7M7	
C511			CE04KW1V220M	ELECTRO	22UF	35WV	M5M6T5	
C511			CE04KW1V220M	ELECTRO	22UF	35WV	T9E9	
C511			CE04KW1V220M	ELECTRO	22UF	35WV	Y9M9M0	
C512			CE04KW1C331M	ELECTRO	330UF	16WV	E5C7M7	
C512			CE04KW1C331M	ELECTRO	330UF	16WV	M5M6T5	
C512			CE04KW1C331M	ELECTRO	330UF	16WV	T9E9	
C512			CE04KW1C331M	ELECTRO	330UF	16WV	Y9M9M0	
C514			CE04KW1V220M	ELECTRO	22UF	35WV	E5C7M7	
C514			CE04KW1V220M	ELECTRO	22UF	35WV	M5M6T5	
C514			CE04KW1V220M	ELECTRO	22UF	35WV	T9E9	
C514			CE04KW1V220M	ELECTRO	22UF	35WV	Y9M9M0	
C516			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C516			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C516			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C516			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C518			CK73FB1E104K	CHIP C	0.10UF	K	E5C7M7	
C518			CK73FB1E104K	CHIP C	0.10UF	K	M5M6T5	
C518			CK73FB1E104K	CHIP C	0.10UF	K	T9E9	
C518			CK73FB1E104K	CHIP C	0.10UF	K	Y9M9M0	
C519			CE04KW1V220M	ELECTRO	22UF	35WV	E5C7M7	
C519			CE04KW1V220M	ELECTRO	22UF	35WV	M5M6T5	
C519			CE04KW1V220M	ELECTRO	22UF	35WV	T9E9	
C519			CE04KW1V220M	ELECTRO	22UF	35WV	Y9M9M0	
C520			CE04KW1C331M	ELECTRO	330UF	16WV	E5C7M7	
C520			CE04KW1C331M	ELECTRO	330UF	16WV	M5M6T5	
C520			CE04KW1C331M	ELECTRO	330UF	16WV	T9E9	
C520			CE04KW1C331M	ELECTRO	330UF	16WV	Y9M9M0	
C525			CK73FB1E683KTA	CHIP C	0.068UF	K	C7M7	
C526,527			CQ93FMG1H393J	MYLAR	0.039UF	J		
C528-531			CQ93FMG1H222J	MYLAR	2200PF	J	E5C7M7	
C528-531			CQ93FMG1H222J	MYLAR	2200PF	J	M5M6T5	
C528-531			CQ93FMG1H222J	MYLAR	2200PF	J	T9E9	
C528-531			CQ93FMG1H222J	MYLAR	2200PF	J	Y9M9M0	
C532			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C532			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C532			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C532			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C533			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C533			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C533			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C533			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C535			CK73FB1H103K	CHIP C	0.010UF	K	E5C7M7	
C535			CK73FB1H103K	CHIP C	0.010UF	K	M5M6T5	
C535			CK73FB1H103K	CHIP C	0.010UF	K	T9E9	
C535			CK73FB1H103K	CHIP C	0.010UF	K	Y9M9M0	
C537			CE04KW1V220M	ELECTRO	22UF	35WV	E5C7M7	
C537			CE04KW1V220M	ELECTRO	22UF	35WV	M5M6T5	
C537			CE04KW1V220M	ELECTRO	22UF	35WV	T9E9	
C537			CE04KW1V220M	ELECTRO	22UF	35WV	Y9M9M0	
C539			CK73FB1E104K	CHIP C	0.10UF	K		
C542			CE04KW1V4R7M	ELECTRO	4.7UF	35WV	C7M7	
C543			CC73FSL1H390J	CHIP C	39PF	J	C7M7	

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C545,546			CC73FSL1H561J	CHIP C	560PF	J		
C548,549			CC73FSL1H561J	CHIP C	560PF	J	E5C7M7	
C548,549			CC73FSL1H561J	CHIP C	560PF	J	M5M6T5	
C548,549			CC73FSL1H561J	CHIP C	560PF	J	T9E9	
C548,549			CC73FSL1H561J	CHIP C	560PF	J	Y9M9M0	
C551,552			CC73FSL1H561J	CHIP C	560PF	J	E5C7M7	
C551,552			CC73FSL1H561J	CHIP C	560PF	J	M5M6T5	
C551,552			CC73FSL1H561J	CHIP C	560PF	J	T9E9	
C551,552			CC73FSL1H561J	CHIP C	560PF	J	Y9M9M0	
C553,554			CC73FSL1H102J	CHIP C	1000PF	J		
C555			CC73FSL1H050C	CHIP C	5.0PF	C		
C556			CK73FB1H103K	CHIP C	0.010UF	K		
C563-562			CC73FSL1H101J	CHIP C	100PF	J		
C563-570			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C563-570			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C563-570			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C563-570			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C571-574			CC73FSL1H101J	CHIP C	100PF	J		
C575-579			CC73FSL1H101J	CHIP C	100PF	J	E5C7M7	
C575-579			CC73FSL1H101J	CHIP C	100PF	J	M5M6T5	
C575-579			CC73FSL1H101J	CHIP C	100PF	J	T9E9	
C575-579			CC73FSL1H101J	CHIP C	100PF	J	Y9M9M0	
C600			CK73FB1E104K	CHIP C	0.10UF	K		
C601			CC73FSL1H100D	CHIP C	10PF	D		
C602			CK73FB1E104K	CHIP C	0.10UF	K		
CN3			E40-4908-05	FLAT CABLE CONNECTOR				
CN4		✻	E40-8296-05	PIN ASSY				
CN5		✻	E40-8297-05	PIN ASSY				
CN6		✻	E40-8298-05	PIN ASSY				
CN8			E40-3252-05	PIN ASSY			C7M7	
CN9			E40-4737-05	PIN ASSY			E9	
CN9			E40-4737-05	PIN ASSY			M9M0T9	
CN10			E40-4744-05	PIN ASSY			E9	
CN10			E40-4744-05	PIN ASSY			M9M0T9	
CN12			E40-3249-05	PIN ASSY			T9E9K9	
CN12			E40-3249-05	PIN ASSY			Y9M9M0	
J2			E63-1052-05	PHONO JACK			M6K5	
J2			E63-1052-05	PHONO JACK			M7C7	
J2			E63-1052-05	PHONO JACK			T5E5M5	
J2		✻	E63-1059-05	PHONO JACK			T9E9K9	
J2		✻	E63-1059-05	PHONO JACK			Y9M9M0	
J3			E63-0122-05	PHONO JACK			M6M5C7	
J3			E63-0122-05	PHONO JACK			M7T5E5	
J3			E63-0175-05	PHONO JACK			T9E9	
J3			E63-0175-05	PHONO JACK			Y9M9M0	
J3 ,4			E63-0122-05	PHONO JACK			K5	
J3 ,4			E63-0175-05	PHONO JACK			K9	
J5		✻	E63-1063-05	PHONO JACK			T9E9	
J5		✻	E63-1063-05	PHONO JACK			Y9M9M0	
J5		✻	E63-1064-05	PHONO JACK			E5C7M7	
J5		✻	E63-1064-05	PHONO JACK			M5M6T5	
J6			E63-0128-05	PHONO JACK			M6K5C7	
J6			E63-0128-05	PHONO JACK			M7	
J6			E63-0128-05	PHONO JACK			T5E5M5	
J6		✻	E63-1060-05	PHONO JACK			M9M0Y9	

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J6		✻	E63-1060-05	PHONO JACK				T9E9K9	
J8 ,9		✻	E56-0021-05	CYLINDRICAL RECEPTACLE				T9E9K9	
J8 ,9		✻	E56-0021-05	CYLINDRICAL RECEPTACLE				Y9M9M0	
J9			E56-0014-05	CYLINDRICAL RECEPTACLE				M6K5C7	
J9			E56-0014-05	CYLINDRICAL RECEPTACLE				M7	
J9			E56-0014-05	CYLINDRICAL RECEPTACLE				T5E5M5	
J10		✻	E63-1061-05	PHONO JACK				K9Y9	
J10		✻	E63-1062-05	PHONO JACK				K5	
J11		✻	E63-1057-05	PHONO JACK				K9Y9	
J11		✻	E63-1058-05	PHONO JACK				K5	
E1			J11-0809-05	WIRE CLAMPER					
E2			J11-0809-05	WIRE CLAMPER				C7M7	
E3			J11-0809-05	WIRE CLAMPER				T9E9K9	
E3			J11-0809-05	WIRE CLAMPER				Y9M9M0	
L198			L92-0075-05	CHIP FERRITE				K5T5E5	
L198			L92-0075-05	CHIP FERRITE				M5M6	
L198			L92-0131-05	FERRITE CORE				E9T9K9	
L198			L92-0131-05	FERRITE CORE				Y9M9M0	
L199			L40-2291-58	SMALL FIXED INDUCTOR(2.2UH,K)					
L200			L40-6891-58	SMALL FIXED INDUCTOR(6.8UH,K)					
L201			L40-1501-58	SMALL FIXED INDUCTOR(15UH,K)					
L202			L40-6891-58	SMALL FIXED INDUCTOR(6.8UH,K)					
L203			L40-2201-58	SMALL FIXED INDUCTOR(22UH,K)					
L204			L40-1001-58	SMALL FIXED INDUCTOR(10UH,K)					
L206			L40-6891-58	SMALL FIXED INDUCTOR(6.8UH,K)				K5K9Y9	
L207			L40-1501-58	SMALL FIXED INDUCTOR(15UH,K)				K5K9Y9	
L208			L40-6891-58	SMALL FIXED INDUCTOR(6.8UH,K)				K5K9Y9	
L209			L40-1501-58	SMALL FIXED INDUCTOR(15UH,K)				K5K9Y9	
L210			L92-0131-05	FERRITE CORE					
L211			L40-1001-58	SMALL FIXED INDUCTOR(10UH,K)					
X1			L78-0678-05	RESONATOR (16MHZ)					
R1			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R3			RK73FB2A561J	CHIP R	560	J	1/10W		
⚠ R4		✻	RS14KB3A1R0JTE	FL-PROOF RS	1	J	1W		
R5			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R6			RK73FB2A821J	CHIP R	820	J	1/10W		
R7 ,8			R92-1860-05	METAL GLAZE	1.50K	F	1/10W		
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R11			RK73FB2A561J	CHIP R	560	J	1/10W		
⚠ R12			RS14KB3AR22J	FL-PROOF RS	0.22	J	1W		
R13			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R14			RK73FB2A391J	CHIP R	390	J	1/10W		
R15		✻	R92-1880-05	METAL GLAZE	15K	F	1/10W		
R16		✻	R92-1881-05	METAL GLAZE	5.6K	F	1/10W		
R17			RK73FB2A331J	CHIP R	330	J	1/10W		
R18			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R19			RK73FB2A101J	CHIP R	100	J	1/10W		
R20			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R21			RK73FB2A331J	CHIP R	330	J	1/10W		
R22			RK73FB2A101J	CHIP R	100	J	1/10W		
R23			RK73FB2A473J	CHIP R	47K	J	1/10W		
R24			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R25 ,26			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R27			RK73FB2A472J	CHIP R	4.7K	J	1/10W		

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R28			RK73FB2A561J	CHIP R	560	J	1/10W		
⚠ R30			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R31			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R32			RK73FB2A821J	CHIP R	820	J	1/10W		
R33			R92-1762-05	METAL GLAZE	4.7K	F	1/10W		
R34			R92-1860-05	METAL GLAZE	1.50K	F	1/10W		
R35			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R37			RK73FB2A561J	CHIP R	560	J	1/10W		
⚠ R38		✻	RS14KB3A1R0JTE	FL-PROOF RS	1	J	1W		
R39			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R40			RK73FB2A821J	CHIP R	820	J	1/10W		
R41			R92-1860-05	METAL GLAZE	1.50K	F	1/10W		
R42			R92-1861-05	METAL GLAZE	1.62K	F	1/10W		
⚠ R43			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R44			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R45			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R46 ,47			RK73FB2A2R2J	CHIP R	2.2	J	1/10W		
⚠ R48			RK73FB2A1R0J	CHIP R	1	J	1/10W		
⚠ R49 ,50			RK73FB2A2R2J	CHIP R	2.2	J	1/10W		
R100			RK73FB2A101J	CHIP R	100	J	1/10W	E5M5M6	
R100			RK73FB2A101J	CHIP R	100	J	1/10W	E9K0Y9	
R100			RK73FB2A101J	CHIP R	100	J	1/10W	M9M0T9	
R100			RK73FB2A101J	CHIP R	100	J	1/10W	T5K5	
R111-113			RK73FB2A221J	CHIP R	220	J	1/10W		
R116			RK73FB2A471J	CHIP R	470	J	1/10W	E9	
R116			RK73FB2A471J	CHIP R	470	J	1/10W	M9M0T9	
R117			RK73FB2A101J	CHIP R	100	J	1/10W		
R118,119			RK73FB2A101J	CHIP R	100	J	1/10W	E9Y9C7	
R118,119			RK73FB2A101J	CHIP R	100	J	1/10W	M6T5	
R118,119			RK73FB2A101J	CHIP R	100	J	1/10W	M7E5M5	
R118,119			RK73FB2A101J	CHIP R	100	J	1/10W	M9M0T9	
R120,121			RK73FB2A101J	CHIP R	100	J	1/10W		
R122			RK73FB2A471J	CHIP R	470	J	1/10W		
R123			RK73FB2A331J	CHIP R	330	J	1/10W		
R124			RK73FB2A471J	CHIP R	470	J	1/10W		
R126-128			RK73FB2A471J	CHIP R	470	J	1/10W		
R129			RK73FB2A101J	CHIP R	100	J	1/10W		
R130-132			RK73FB2A473J	CHIP R	47K	J	1/10W	C7M7	
R137-140			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5M5M6	
R137-140			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E9K9Y9	
R137-140			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M9M0T9	
R137-140			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T5	
R141			RK73FB2A101J	CHIP R	100	J	1/10W		
R142			RK73FB2A473J	CHIP R	47K	J	1/10W		
R144,145			RK73FB2A473J	CHIP R	47K	J	1/10W		
R146			RK73FB2A223J	CHIP R	22K	J	1/10W		
R147			RK73FB2A473J	CHIP R	47K	J	1/10W		
R148			RK73FB2A473J	CHIP R	47K	J	1/10W	E5M5M6	
R148			RK73FB2A473J	CHIP R	47K	J	1/10W	E9K9Y9	
R148			RK73FB2A473J	CHIP R	47K	J	1/10W	M9M0T9	
R148			RK73FB2A473J	CHIP R	47K	J	1/10W	T5K5	
R149			RK73FB2A473J	CHIP R	47K	J	1/10W	C7M7	
R150			RK73FB2A473J	CHIP R	47K	J	1/10W		
R151			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R152,153			RK73FB2A473J	CHIP R	47K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R155			RK73FB2A473J	CHIP R	47K	J	1/10W		
R157			RK73FB2A473J	CHIP R	47K	J	1/10W	C7M7	
R157			RK73FB2A473J	CHIP R	47K	J	1/10W	E5M5M6	
R157			RK73FB2A473J	CHIP R	47K	J	1/10W	T5K5	
R158			RK73FB2A473J	CHIP R	47K	J	1/10W	E9K0Y9	
R158			RK73FB2A473J	CHIP R	47K	J	1/10W	M9M0T9	
R159			RK73FB2A473J	CHIP R	47K	J	1/10W	M6K5C7	
R159			RK73FB2A473J	CHIP R	47K	J	1/10W	M7	
R159			RK73FB2A473J	CHIP R	47K	J	1/10W	T5E5M5	
R160			RK73FB2A473J	CHIP R	47K	J	1/10W	E9K9Y9	
R160			RK73FB2A473J	CHIP R	47K	J	1/10W	M9M0T9	
R161-164			RK73FB2A473J	CHIP R	47K	J	1/10W		
R165,166			RK73FB2A332J	CHIP R	3.3K	J	1/10W	C7M7	
R165,166			RK73FB2A473J	CHIP R	47K	J	1/10W	E9T9K9	
R165,166			RK73FB2A473J	CHIP R	47K	J	1/10W	M6K5	
R165,166			RK73FB2A473J	CHIP R	47K	J	1/10W	T5E5M5	
R165,166			RK73FB2A473J	CHIP R	47K	J	1/10W	Y9M9M0	
R170			RK73FB2A563J	CHIP R	56K	J	1/10W		
R171			RK73FB2A104J	CHIP R	100K	J	1/10W	K9	
R171			RK73FB2A123J	CHIP R	12K	J	1/10W	K5	
R171			RK73FB2A273J	CHIP R	27K	J	1/10W	E5	
R171			RK73FB2A273J	CHIP R	27K	J	1/10W	M5M6T5	
R171			RK73FB2A274J	CHIP R	270K	J	1/10W	T9E9	
R171			RK73FB2A274J	CHIP R	270K	J	1/10W	Y9M9M0	
R171			RK73FB2A563J	CHIP R	56K	J	1/10W	C7M7	
R174			RK73FB2A473J	CHIP R	47K	J	1/10W		
R178-180			RK73FB2A473J	CHIP R	47K	J	1/10W		
R185-188			RK73FB2A473J	CHIP R	47K	J	1/10W		
R189			RK73FB2A223J	CHIP R	22K	J	1/10W		
R190			RK73FB2A473J	CHIP R	47K	J	1/10W		
R191			RK73FB2A104J	CHIP R	100K	J	1/10W		
R192			RK73FB2A331J	CHIP R	330	J	1/10W		
R193,194			RK73FB2A104J	CHIP R	100K	J	1/10W		
R195			RK73FB2A331J	CHIP R	330	J	1/10W		
R196			RK73FB2A104J	CHIP R	100K	J	1/10W		
R198			RK73FB2A473J	CHIP R	47K	J	1/10W		
R199			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C7M7	
R200			RK73FB2A561J	CHIP R	560	J	1/10W		
R201			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R202			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R203			RK73FB2A331J	CHIP R	330	J	1/10W		
R204			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R205			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R206			RK73FB2A101J	CHIP R	100	J	1/10W		
R207,208			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R209			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R210			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R211			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R212		✻	R92-1915-05	METAL GLAZE	4.12K	F	1/10W		
R213			RK73FB2A561J	CHIP R	560	J	1/10W		
R214			RK73FB2A101J	CHIP R	100	J	1/10W		
R215			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R216			RK73FB2A103J	CHIP R	10K	J	1/10W		
R217			RK73FB2A101J	CHIP R	100	J	1/10W		
R218			RK73FB2A222J	CHIP R	2.2K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R219			RK73FB2A101J	CHIP R	100	J	1/10W		
R220			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R221			RK73FB2A101J	CHIP R	100	J	1/10W		
R222,223			RK73FB2A680J	CHIP R	68	J	1/10W		
R224			RK73FB2A561J	CHIP R	560	J	1/10W		
R225			RK73FB2A100J	CHIP R	10	J	1/10W		
R226			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R227			RK73FB2A471J	CHIP R	470	J	1/10W		
R228			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R229			RK73FB2A104J	CHIP R	100K	J	1/10W		
R230			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R231			RK73FB2A103J	CHIP R	10K	J	1/10W		
R232			RK73FB2A101J	CHIP R	100	J	1/10W		
R233			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R234			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R235,236			RK73FB2A101J	CHIP R	100	J	1/10W		
R237			RK73FB2A680J	CHIP R	68	J	1/10W		
R238			RK73FB2A680J	CHIP R	68	J	1/10W	T9E9K9	
R238			RK73FB2A680J	CHIP R	68	J	1/10W	Y9M9M0	
R239			RK73FB2A680J	CHIP R	68	J	1/10W		
R240			RK73FB2A680J	CHIP R	68	J	1/10W	T9E9K9	
R240			RK73FB2A680J	CHIP R	68	J	1/10W	Y9M9M0	
R247			RK73FB2A103J	CHIP R	10K	J	1/10W	K5K9Y9	
R248			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R249			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K5K9Y9	
R250			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R251-253			RK73FB2A122J	CHIP R	1.2K	J	1/10W	K5K9Y9	
R254-256			RK73FB2A680J	CHIP R	68	J	1/10W	K5K9Y9	
R257			RK73FB2A561J	CHIP R	560	J	1/10W	K5K9Y9	
R258			RK73FB2A392J	CHIP R	3.9K	J	1/10W	K5K9Y9	
R259			RK73FB2A562J	CHIP R	5.6K	J	1/10W	K5K9Y9	
R260			RK73FB2A751J	CHIP R	750	J	1/10W	K5K9Y9	
R261			RK73FB2A821J	CHIP R	820	J	1/10W	K5K9Y9	
R262			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K5K9Y9	
R263			RK73FB2A103J	CHIP R	10K	J	1/10W	K5K9Y9	
R264			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R265			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K5K9Y9	
R266			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R267,268			RK73FB2A122J	CHIP R	1.2K	J	1/10W	K5K9Y9	
R269			RK73FB2A561J	CHIP R	560	J	1/10W	K5K9Y9	
R270			RK73FB2A392J	CHIP R	3.9K	J	1/10W	K5K9Y9	
R271			RK73FB2A562J	CHIP R	5.6K	J	1/10W	K5K9Y9	
R272			RK73FB2A751J	CHIP R	750	J	1/10W	K5K9Y9	
R273			RK73FB2A821J	CHIP R	820	J	1/10W	K5K9Y9	
R274			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K5K9Y9	
R275			RK73FB2A103J	CHIP R	10K	J	1/10W	K5K9Y9	
R276			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R277			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K5K9Y9	
R278			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R279,280			RK73FB2A122J	CHIP R	1.2K	J	1/10W	K5K9Y9	
R281			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R282			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R283			RK73FB2A273J	CHIP R	27K	J	1/10W		
R284			RK73FB2A224J	CHIP R	220K	J	1/10W		
R285			RK73FB2A683J	CHIP R	68K	J	1/10W		

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R286			RK73FB2A563J	CHIP R	56K	J	1/10W		
R287			RK73FB2A224J	CHIP R	220K	J	1/10W		
R288			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R289			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R290			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R291			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R292-295			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R296			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R297			RK73FB2A101J	CHIP R	100	J	1/10W		
R298			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R299			RK73FB2A101J	CHIP R	100	J	1/10W		
R302			RK73FB2A272J	CHIP R	2.7K	J	1/10W	K5K9Y9	
R303			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
R304			RK73FB2A272J	CHIP R	2.7K	J	1/10W	K5K9Y9	
R305			RK73FB2A101J	CHIP R	100	J	1/10W	K5K9Y9	
⚠ R307,308			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R311			RK73FB2A103J	CHIP R	10K	J	1/10W		
R312			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R402,403			RK73FB2A752J	CHIP R	7.5K	J	1/10W		
R404,405			RK73FB2A153J	CHIP R	15K	J	1/10W		
R406-411			RK73FB2A221J	CHIP R	220	J	1/10W		
R412,413			RK73FB2A470J	CHIP R	47	J	1/10W		
R414,415			RK73FB2A104J	CHIP R	100K	J	1/10W		
R416,417			RK73FB2A470J	CHIP R	47	J	1/10W		
R418,419			RK73FB2A104J	CHIP R	100K	J	1/10W		
R420,421			RK73FB2A470J	CHIP R	47	J	1/10W		
R422,423			RK73FB2A104J	CHIP R	100K	J	1/10W		
R424-427			RK73FB2A181J	CHIP R	180	J	1/10W		
R428,429			RK73FB2A151J	CHIP R	150	J	1/10W		
R430,431			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9K9	
R430,431			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R432,433			RK73FB2A821J	CHIP R	820	J	1/10W	C7M7	
R434,435			RK73FB2A104J	CHIP R	100K	J	1/10W	E5C7M7	
R434,435			RK73FB2A104J	CHIP R	100K	J	1/10W	M5M6T5	
R434,435			RK73FB2A104J	CHIP R	100K	J	1/10W	T9E9K9	
R434,435			RK73FB2A104J	CHIP R	100K	J	1/10W	Y9M9M0	
R436,437			RK73FB2A181J	CHIP R	180	J	1/10W	E5C7M7	
R436,437			RK73FB2A181J	CHIP R	180	J	1/10W	M5M6T5	
R436,437			RK73FB2A181J	CHIP R	180	J	1/10W	T9E9K9	
R436,437			RK73FB2A181J	CHIP R	180	J	1/10W	Y9M9M0	
R438,439			RK73FB2A181J	CHIP R	180	J	1/10W	E9Y9C7	
R438,439			RK73FB2A181J	CHIP R	180	J	1/10W	M6T5	
R438,439			RK73FB2A181J	CHIP R	180	J	1/10W	M7E5M5	
R438,439			RK73FB2A181J	CHIP R	180	J	1/10W	M9MOT9	
R440,441			RK73FB2A151J	CHIP R	150	J	1/10W	E5C7M7	
R440,441			RK73FB2A151J	CHIP R	150	J	1/10W	M5M6T5	
R440,441			RK73FB2A151J	CHIP R	150	J	1/10W	T9E9	
R440,441			RK73FB2A151J	CHIP R	150	J	1/10W	Y9M9M0	
R442,443			RK73FB2A821J	CHIP R	820	J	1/10W	C7M7	
R446,447			RK73FB2A362J	CHIP R	3.6K	J	1/10W	E5C7M7	
R446,447			RK73FB2A362J	CHIP R	3.6K	J	1/10W	M5M6T5	
R446,447			RK73FB2A362J	CHIP R	3.6K	J	1/10W	T9E9	
R446,447			RK73FB2A362J	CHIP R	3.6K	J	1/10W	Y9M9M0	
R448-451			RK73FB2A392J	CHIP R	3.9K	J	1/10W	E5C7M7	
R448-451			RK73FB2A392J	CHIP R	3.9K	J	1/10W	M5M6T5	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R448-451			RK73FB2A392J	CHIP R	3.9K	J	1/10W	T9E9	
R448-451			RK73FB2A392J	CHIP R	3.9K	J	1/10W	Y9M9M0	
R452,453			RK73FB2A470J	CHIP R	47	J	1/10W	E5C7M7	
R452,453			RK73FB2A470J	CHIP R	47	J	1/10W	M5M6T5	
R452,453			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9	
R452,453			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R454,455			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R454,455			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R454,455			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R454,455			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R456,457			RK73FB2A512J	CHIP R	5.1K	J	1/10W	E5C7M7	
R456,457			RK73FB2A512J	CHIP R	5.1K	J	1/10W	M5M6T5	
R456,457			RK73FB2A512J	CHIP R	5.1K	J	1/10W	T9E9	
R456,457			RK73FB2A512J	CHIP R	5.1K	J	1/10W	Y9M9M0	
R458,459			RK73FB2A183J	CHIP R	18K	J	1/10W	E5C7M7	
R458,459			RK73FB2A183J	CHIP R	18K	J	1/10W	M5M6T5	
R458,459			RK73FB2A183J	CHIP R	18K	J	1/10W	T9E9	
R458,459			RK73FB2A183J	CHIP R	18K	J	1/10W	Y9M9M0	
R460,461			RK73FB2A470J	CHIP R	47	J	1/10W	E5C7M7	
R460,461			RK73FB2A470J	CHIP R	47	J	1/10W	M5M6T5	
R460,461			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9	
R460,461			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R462,463			RK73FB2A104J	CHIP R	100K	J	1/10W	E5C7M7	
R462,463			RK73FB2A104J	CHIP R	100K	J	1/10W	M5M6T5	
R462,463			RK73FB2A104J	CHIP R	100K	J	1/10W	T9E9	
R462,463			RK73FB2A104J	CHIP R	100K	J	1/10W	Y9M9M0	
R464-467			RK73FB2A181J	CHIP R	180	J	1/10W	E5C7M7	
R464-467			RK73FB2A181J	CHIP R	180	J	1/10W	M5M6T5	
R464-467			RK73FB2A181J	CHIP R	180	J	1/10W	T9E9	
R464-467			RK73FB2A181J	CHIP R	180	J	1/10W	Y9M9M0	
R468,469			RK73FB2A151J	CHIP R	150	J	1/10W	E5C7M7	
R468,469			RK73FB2A151J	CHIP R	150	J	1/10W	M5M6T5	
R468,469			RK73FB2A151J	CHIP R	150	J	1/10W	T9E9	
R468,469			RK73FB2A151J	CHIP R	150	J	1/10W	Y9M9M0	
R472-475			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R472-475			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R472-475			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R472-475			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R478,479			RK73FB2A362J	CHIP R	3.6K	J	1/10W	E5C7M7	
R478,479			RK73FB2A362J	CHIP R	3.6K	J	1/10W	M5M6T5	
R478,479			RK73FB2A362J	CHIP R	3.6K	J	1/10W	T9E9	
R478,479			RK73FB2A362J	CHIP R	3.6K	J	1/10W	Y9M9M0	
R480-483			RK73FB2A392J	CHIP R	3.9K	J	1/10W	E5C7M7	
R480-483			RK73FB2A392J	CHIP R	3.9K	J	1/10W	M5M6T5	
R480-483			RK73FB2A392J	CHIP R	3.9K	J	1/10W	T9E9	
R480-483			RK73FB2A392J	CHIP R	3.9K	J	1/10W	Y9M9M0	
R484,485			RK73FB2A470J	CHIP R	47	J	1/10W	E5C7M7	
R484,485			RK73FB2A470J	CHIP R	47	J	1/10W	M5M6T5	
R484,485			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9	
R484,485			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R486,487			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R486,487			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R486,487			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R486,487			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R488,489			RK73FB2A512J	CHIP R	5.1K	J	1/10W	E5C7M7	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R488,489			RK73FB2A512J	CHIP R	5.1K	J	1/10W	M5M6T5	
R488,489			RK73FB2A512J	CHIP R	5.1K	J	1/10W	T9E9	
R488,489			RK73FB2A512J	CHIP R	5.1K	J	1/10W	Y9M9M0	
R490,491			RK73FB2A183J	CHIP R	18K	J	1/10W	E5C7M7	
R490,491			RK73FB2A183J	CHIP R	18K	J	1/10W	M5M6T5	
R490,491			RK73FB2A183J	CHIP R	18K	J	1/10W	T9E9	
R490,491			RK73FB2A183J	CHIP R	18K	J	1/10W	Y9M9M0	
R492,493			RK73FB2A470J	CHIP R	47	J	1/10W	E5C7M7	
R492,493			RK73FB2A470J	CHIP R	47	J	1/10W	M5M6T5	
R492,493			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9	
R492,493			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R494,495			RK73FB2A104J	CHIP R	100K	J	1/10W	E5C7M7	
R494,495			RK73FB2A104J	CHIP R	100K	J	1/10W	M5M6T5	
R494,495			RK73FB2A104J	CHIP R	100K	J	1/10W	T9E9	
R494,495			RK73FB2A104J	CHIP R	100K	J	1/10W	Y9M9M0	
R496,497			RK73FB2A181J	CHIP R	180	J	1/10W	E5C7M7	
R496,497			RK73FB2A181J	CHIP R	180	J	1/10W	M5M6T5	
R496,497			RK73FB2A181J	CHIP R	180	J	1/10W	T9E9	
R496,497			RK73FB2A181J	CHIP R	180	J	1/10W	Y9M9M0	
R498,499			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R498,499			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R498,499			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9K9	
R498,499			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R500,501			RK73FB2A181J	CHIP R	180	J	1/10W	E5C7M7	
R500,501			RK73FB2A181J	CHIP R	180	J	1/10W	M5M6T5	
R500,501			RK73FB2A181J	CHIP R	180	J	1/10W	M9M0Y9	
R500,501			RK73FB2A181J	CHIP R	180	J	1/10W	T9E9K9	
R502,503			RK73FB2A151J	CHIP R	150	J	1/10W		
R504,505			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R504,505			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R504,505			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9K9	
R504,505			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R508,509			RK73FB2A302J	CHIP R	3.0K	J	1/10W	E5C7M7	
R508,509			RK73FB2A302J	CHIP R	3.0K	J	1/10W	M5M6T5	
R508,509			RK73FB2A302J	CHIP R	3.0K	J	1/10W	T9E9	
R508,509			RK73FB2A302J	CHIP R	3.0K	J	1/10W	Y9M9M0	
R510,511			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R510,511			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R510,511			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R510,511			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R512,513			RK73FB2A302J	CHIP R	3.0K	J	1/10W	E5C7M7	
R512,513			RK73FB2A302J	CHIP R	3.0K	J	1/10W	M5M6T5	
R512,513			RK73FB2A302J	CHIP R	3.0K	J	1/10W	T9E9	
R512,513			RK73FB2A302J	CHIP R	3.0K	J	1/10W	Y9M9M0	
R514			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R514			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R514			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R514			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R515			RK73FB2A302J	CHIP R	3.0K	J	1/10W	E5C7M7	
R515			RK73FB2A302J	CHIP R	3.0K	J	1/10W	M5M6T5	
R515			RK73FB2A302J	CHIP R	3.0K	J	1/10W	T9E9	
R515			RK73FB2A302J	CHIP R	3.0K	J	1/10W	Y9M9M0	
R516			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R516			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R516			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R516			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R519			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R519			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R519			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R519			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R520			RK73FB2A302J	CHIP R	3.0K	J	1/10W	E5C7M7	
R520			RK73FB2A302J	CHIP R	3.0K	J	1/10W	M5M6T5	
R520			RK73FB2A302J	CHIP R	3.0K	J	1/10W	T9E9	
R520			RK73FB2A302J	CHIP R	3.0K	J	1/10W	Y9M9M0	
R521			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R521			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R521			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R521			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R522,523			RK73FB2A302J	CHIP R	3.0K	J	1/10W	E5C7M7	
R522,523			RK73FB2A302J	CHIP R	3.0K	J	1/10W	M5M6T5	
R522,523			RK73FB2A302J	CHIP R	3.0K	J	1/10W	T9E9	
R522,523			RK73FB2A302J	CHIP R	3.0K	J	1/10W	Y9M9M0	
R524,525			RK73FB2A470J	CHIP R	47	J	1/10W	E5C7M7	
R524,525			RK73FB2A470J	CHIP R	47	J	1/10W	M5M6T5	
R524,525			RK73FB2A470J	CHIP R	47	J	1/10W	T9E9	
R524,525			RK73FB2A470J	CHIP R	47	J	1/10W	Y9M9M0	
R526			RK73FB2A223J	CHIP R	22K	J	1/10W	C7M7	
R527			RK73FB2A394J	CHIP R	390K	J	1/10W	C7M7	
R528			RK73FB2A683J	CHIP R	68K	J	1/10W	C7M7	
R529			RK73FB2A512J	CHIP R	5.1K	J	1/10W	C7M7	
R530			RK73FB2A563J	CHIP R	56K	J	1/10W	C7M7	
R531			RK73FB2A103J	CHIP R	10K	J	1/10W	C7M7	
R532			RK73FB2A222J	CHIP R	2.2K	J	1/10W	C7M7	
R533			RK73FB2A103J	CHIP R	10K	J	1/10W	C7M7	
R534			RK73FB2A101J	CHIP R	100	J	1/10W	E5C7M7	
R534			RK73FB2A101J	CHIP R	100	J	1/10W	M5M6T5	
R534			RK73FB2A101J	CHIP R	100	J	1/10W	T9E9	
R534			RK73FB2A101J	CHIP R	100	J	1/10W	Y9M9M0	
R535,536			RK73FB2A472J	CHIP R	4.7K	J	1/10W	C7M7	
R537,538			RK73FB2A432J	CHIP R	4.3K	J	1/10W	C7M7	
R539			RK73FB2A101J	CHIP R	100	J	1/10W	K9M9M0	
R539			RK73FB2A101J	CHIP R	100	J	1/10W	T9E9	
R540,541			RK73FB2A470J	CHIP R	47	J	1/10W		
R542			RK73FB2A103J	CHIP R	10K	J	1/10W	C7M7	
R543			RK73FB2A223J	CHIP R	22K	J	1/10W	C7M7	
R544,545			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C7M7	
R546			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R547,548			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C7M7	
R550-552			RK73FB2A101J	CHIP R	100	J	1/10W		
R553			RK73FB2A100J	CHIP R	10	J	1/10W		
R554			RK73FB2A4R7J	CHIP R	4.7	J	1/10W		
R555			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R556			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R557-559			RK73FB2A101J	CHIP R	100	J	1/10W	E5C7M7	
R557-559			RK73FB2A101J	CHIP R	100	J	1/10W	M5M6T5	
R557-559			RK73FB2A101J	CHIP R	100	J	1/10W	T9E9	
R557-559			RK73FB2A101J	CHIP R	100	J	1/10W	Y9M9M0	
R560			RK73FB2A100J	CHIP R	10	J	1/10W	E5C7M7	
R560			RK73FB2A100J	CHIP R	10	J	1/10W	M5M6T5	
R560			RK73FB2A100J	CHIP R	10	J	1/10W	T9E9	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R560			RK73FB2A100J	CHIP R	10	J	1/10W	Y9M9M0	
R561			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	E5C7M7	
R561			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	M5M6T5	
R561			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	T9E9	
R561			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	Y9M9M0	
R562			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R562			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R562			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R562			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R563			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R563			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R563			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R563			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R564			RK73FB2A223J	CHIP R	22K	J	1/10W	E5C7M7	
R564			RK73FB2A223J	CHIP R	22K	J	1/10W	M5M6T5	
R564			RK73FB2A223J	CHIP R	22K	J	1/10W	T9E9	
R564			RK73FB2A223J	CHIP R	22K	J	1/10W	Y9M9M0	
R565-567			RK73FB2A101J	CHIP R	100	J	1/10W	E5C7M7	
R565-567			RK73FB2A101J	CHIP R	100	J	1/10W	M5M6T5	
R565-567			RK73FB2A101J	CHIP R	100	J	1/10W	T9E9	
R565-567			RK73FB2A101J	CHIP R	100	J	1/10W	Y9M9M0	
R568			RK73FB2A100J	CHIP R	10	J	1/10W	E5C7M7	
R568			RK73FB2A100J	CHIP R	10	J	1/10W	M5M6T5	
R568			RK73FB2A100J	CHIP R	10	J	1/10W	T9E9	
R568			RK73FB2A100J	CHIP R	10	J	1/10W	Y9M9M0	
R569			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	E5C7M7	
R569			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	M5M6T5	
R569			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	T9E9	
R569			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	Y9M9M0	
R570			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R570			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R570			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R570			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R571			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E5C7M7	
R571			RK73FB2A222J	CHIP R	2.2K	J	1/10W	M5M6T5	
R571			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T9E9	
R571			RK73FB2A222J	CHIP R	2.2K	J	1/10W	Y9M9M0	
R575-578			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K5	
R575-578			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K9	
R575-582			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R575-582			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R575-582			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R575-582			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R583			RK73FB2A103J	CHIP R	10K	J	1/10W		
R584			RK73FB2A224J	CHIP R	220K	J	1/10W		
R585			RK73FB2A103J	CHIP R	10K	J	1/10W		
R586			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R587			RK73FB2A562J	CHIP R	5.6K	J	1/10W	E5C7M7	
R587			RK73FB2A562J	CHIP R	5.6K	J	1/10W	M5M6T5	
R587			RK73FB2A562J	CHIP R	5.6K	J	1/10W	T9E9	
R587			RK73FB2A562J	CHIP R	5.6K	J	1/10W	Y9M9M0	
R588			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R589			RK73FB2A562J	CHIP R	5.6K	J	1/10W	E5C7M7	
R589			RK73FB2A562J	CHIP R	5.6K	J	1/10W	M5M6T5	
R589			RK73FB2A562J	CHIP R	5.6K	J	1/10W	T9E9	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R589			RK73FB2A562J	CHIP R	5.6K	J	1/10W	Y9M9M0	
R590			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R591			RK73FB2A104J	CHIP R	100K	J	1/10W		
R600			RK73FB2A241J	CHIP R	240	J	1/10W	E5C7M7	
R600			RK73FB2A241J	CHIP R	240	J	1/10W	M5M6T5	
R600			RK73FB2A241J	CHIP R	240	J	1/10W	T9E9	
R600			RK73FB2A241J	CHIP R	240	J	1/10W	Y9M9M0	
R601			RK73FB2A181J	CHIP R	180	J	1/10W		
R602			RK73FB2A750J	CHIP R	75	J	1/10W		
R603			RK73FB2A220J	CHIP R	22	J	1/10W		
R604			RK73FB2A4R7J	CHIP R	4.7	J	1/10W		
R605,606			RK73FB2A331J	CHIP R	330	J	1/10W		
R607,608			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R609			RK73FB2A393J	CHIP R	39K	J	1/10W	E5M5M6	
R609			RK73FB2A393J	CHIP R	39K	J	1/10W	E9K9Y9	
R609			RK73FB2A393J	CHIP R	39K	J	1/10W	M9M0T9	
R609			RK73FB2A393J	CHIP R	39K	J	1/10W	T5K5	
R610			RK73FB2A105J	CHIP R	1.0M	J	1/10W	E5M5M6	
R610			RK73FB2A105J	CHIP R	1.0M	J	1/10W	E9K9Y9	
R610			RK73FB2A105J	CHIP R	1.0M	J	1/10W	M9M0T9	
R610			RK73FB2A105J	CHIP R	1.0M	J	1/10W	T5K5	
R611			RK73FB2A473J	CHIP R	47K	J	1/10W	K5T5E5	
R611			RK73FB2A473J	CHIP R	47K	J	1/10W	M5M6	
R611			RK73FB2A473J	CHIP R	47K	J	1/10W	T9E9K9	
R611			RK73FB2A473J	CHIP R	47K	J	1/10W	Y9M9M0	
R612-625			RK73FB2A473J	CHIP R	47K	J	1/10W		
R626			RK73FB2A241J	CHIP R	240	J	1/10W	E5C7M7	
R626			RK73FB2A241J	CHIP R	240	J	1/10W	M5M6T6	
R626			RK73FB2A241J	CHIP R	240	J	1/10W	T9E9	
R626			RK73FB2A241J	CHIP R	240	J	1/10W	Y9M9M0	
R627,628			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R627,628			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R627,628			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R627,628			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R629			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	E5C7M7	
R629			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	M5M6T5	
R629			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	T9E9	
R629			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	Y9M9M0	
R630,631			RK73FB2A241J	CHIP R	240	J	1/10W	E5C7M7	
R630,631			RK73FB2A241J	CHIP R	240	J	1/10W	M5M6T5	
R630,631			RK73FB2A241J	CHIP R	240	J	1/10W	T9E9	
R630,631			RK73FB2A241J	CHIP R	240	J	1/10W	Y9M9M0	
R632,633			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E5C7M7	
R632,633			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M5M6T5	
R632,633			RK73FB2A102J	CHIP R	1.0K	J	1/10W	T9E9	
R632,633			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y9M9M0	
R634,635			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R636-639			RK73FB2A101J	CHIP R	100	J	1/10W	E5C7M7	
R636-639			RK73FB2A101J	CHIP R	100	J	1/10W	M5M6T5	
R636-639			RK73FB2A101J	CHIP R	100	J	1/10W	T9E9	
R636-639			RK73FB2A101J	CHIP R	100	J	1/10W	Y9M9M0	
R640			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	E5C7M7	
R640			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	M5M6T5	
R640			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	T9E9	
R640			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	Y9M9M0	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R641			RK73FB2A103J	CHIP R 10K J 1/10W	E9	
R641			RK73FB2A103J	CHIP R 10K J 1/10W	M9M0T9	
R644			RK73FB2A104J	CHIP R 100K J 1/10W	T9E9K9	
R644			RK73FB2A104J	CHIP R 100K J 1/10W	Y9M9M0	
R645			RK73FB2A512J	CHIP R 5.1K J 1/10W	T9E9K9	
R645			RK73FB2A512J	CHIP R 5.1K J 1/10W	Y9M9M0	
R646			RK73FB2A223J	CHIP R 22K J 1/10W	E9T9K9	
R646			RK73FB2A223J	CHIP R 22K J 1/10W	Y9M9M0	
R648			RK73FB2A221J	CHIP R 220 J 1/10W		
R648			RK73FB2A221J	CHIP R 220 J 1/10W	C7M7	
R649,650			RK73FB2A8R2J	CHIP R 8.2 J 1/10W	T9E9K9	
R649,650			RK73FB2A8R2J	CHIP R 8.2 J 1/10W	Y9M9M0	
R651			RK73FB2A272J	CHIP R 2.7K J 1/10W	T9E9K9	
R651			RK73FB2A272J	CHIP R 2.7K J 1/10W	Y9M9M0	
W1			R92-0670-05	CHIP R 0 OHM	C7M7	
W2			R92-0670-05	CHIP R 0 OHM	E5C7M7	
W2			R92-0670-05	CHIP R 0 OHM	K9Y9	
W2			R92-0670-05	CHIP R 0 OHM	M5M6T6	
W3			R92-0670-05	CHIP R 0 OHM	E5M5M6	
W3			R92-0670-05	CHIP R 0 OHM	T5	
W3			R92-0670-05	CHIP R 0 OHM	Y9C7M7	
W4			R92-0670-05	CHIP R 0 OHM	K9K5	
W9 -12			R92-0670-05	CHIP R 0 OHM	E9	
W9 -12			R92-0670-05	CHIP R 0 OHM	M9M0T9	
W13			R92-0670-05	CHIP R 0 OHM	E5C7M7	
W13			R92-0670-05	CHIP R 0 OHM	K9Y9	
W13			R92-0670-05	CHIP R 0 OHM	M5M6T5	
W14			R92-0670-05	CHIP R 0 OHM	E5M5M6	
W14			R92-0670-05	CHIP R 0 OHM	T5	
W14			R92-0670-05	CHIP R 0 OHM	Y9C7M7	
W15 -17			R92-0670-05	CHIP R 0 OHM	K9K5	
W21 ,22			R92-0670-05	CHIP R 0 OHM	K5	
W25 ,26			R92-0670-05	CHIP R 0 OHM		
W27			R92-0670-05	CHIP R 0 OHM	K5	
W27			R92-0670-05	CHIP R 0 OHM	K5E5M5	
W27			R92-0670-05	CHIP R 0 OHM	M5M6T5	
W27			R92-0670-05	CHIP R 0 OHM	M6T5C7	
W27			R92-0670-05	CHIP R 0 OHM	M7	
W27			R92-0670-05	CHIP R 0 OHM	M7C7E5	
W28 ,29			R92-0670-05	CHIP R 0 OHM	E9	
W28 ,29			R92-0670-05	CHIP R 0 OHM	M9M0T9	
W30			R92-0670-05	CHIP R 0 OHM	E5C7M7	
W30			R92-0670-05	CHIP R 0 OHM	E9Y9	
W30			R92-0670-05	CHIP R 0 OHM	M5M6T5	
W30			R92-0670-05	CHIP R 0 OHM	M9M0T9	
W30			R92-0670-05	CHIP R 0 OHM	M9M0T9	
W32			R92-1835-05	JUMPER WIRE (RESISTOR TYPE)		
W34			R92-0670-05	CHIP R 0 OHM		
W35 -37			R92-0670-05	CHIP R 0 OHM	K9	
D1			UDZ6.2B	ZENER DIODE		
D2			UDZ5.6B	ZENER DIODE		
D3			UDZ6.2B	ZENER DIODE		
D4			UDZ5.6B	ZENER DIODE		
D7			UDZ3.3B	ZENER DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D9			DAN202U	DIODE		
D10 ,11			DA204U	DIODE		
D100-102			MA111	DIODE		
D103			MA111	DIODE	E5M5M6	
D103			MA111	DIODE	T5	
D103			MA111	DIODE	T9E9K9	
D103			MA111	DIODE	Y9M9M0	
D200			MA111	DIODE		
D201,202			UDZ6.2B	ZENER DIODE		
D203			DAN202U	DIODE		
D204			DAP202U	DIODE		
D205			DAN202U	DIODE		
D206			DAP202U	DIODE		
D207-212			U1BC44	DIODE		
D401			DAN202U	DIODE	E5C7M7	
D401			DAN202U	DIODE	M5M6T5	
D401			DAN202U	DIODE	T9E9	
D401			DAN202U	DIODE	Y9M9M0	
D402,403			MA111	DIODE	C7M7	
D404			DAN202U	DIODE		
D405			DAP202U	DIODE	E5C7M7	
D405			DAP202U	DIODE	M5M6T5	
D405			DAP202U	DIODE	T9E9	
D405			DAP202U	DIODE	Y9M9M0	
D406			DAP202U	DIODE		
D424			UDZ5.6B	ZENER DIODE	C7M7	
IC1			TL431CLP	MOS-IC		
IC2			M51494L	ANALOGUE IC		
IC3			PCM1716E	MOS-IC		
IC4 ,5			PCM1716E	MOS-IC	E5C7M7	
IC4 ,5			PCM1716E	MOS-IC	M5M6T5	
IC4 ,5			PCM1716E	MOS-IC	T9E9	
IC4 ,5			PCM1716E	MOS-IC	Y9M9M0	
IC6 ,7		✻	TC9412AF	MOS-IC	E5C7M7	
IC6 ,7		✻	TC9412AF	MOS-IC	M5M6T5	
IC6 ,7		✻	TC9412AF	MOS-IC	T9E9	
IC6 ,7		✻	TC9412AF	MOS-IC	Y9M9M0	
IC8 ,9		✻	TC9214AF	MOS-IC	E9	
IC8 ,9		✻	TC9214AF	MOS-IC	M9M0T9	
⚠ IC10			BA17805T	ANALOGUE IC		
⚠ IC10			UPC7805AHF	ANALOGUE IC		
IC11-16			NJM4580ED	ANALOGUE IC	E5C7M7	
IC11-16			NJM4580ED	ANALOGUE IC	M5M6T5	
IC11-16			NJM4580ED	ANALOGUE IC	T9E9	
IC11-16			NJM4580ED	ANALOGUE IC	Y9M9M0	
IC17-20			NJM4580ED	ANALOGUE IC		
IC21			NJM4565M	IC(OP AMP X2)	C7M7	
IC22			S-80740AL-A4	IC(VOLTAGE DETECTOR)		
IC23			NJU3715G	MOS-IC	E9	
IC23			NJU3715G	MOS-IC	M9M0T9	
IC24			TA8409S	MOS-IC	T9E9K9	
IC24			TA8409S	MOS-IC	Y9M9MO	
IC25			HD6433396A65F	MI-COM IC		
IC26			LC89170M	MOS-IC	K5T5E5	
IC26			LC89170M	MOS-IC	M5M6	

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IC26			LC89170M	MOS-IC	M9M0Y9	
IC26			LC89170M	MOS-IC	T9E9K9	
IC27			TC7SHU04FU	MOS-IC	K5T5E5	
IC27			TC7SHU04FU	MOS-IC	M5M6	
IC27			TC7SHU04FU	MOS-IC	T9E9K9	
IC27			TC7SHU04FU	MOS-IC	Y9M9M0	
IC28			TC74HC14AF	IC(SCHMIDT INVERTER)	K5T5E5	
IC28			TC74HC14AF	IC(SCHMIDT INVERTER)	M5M6	
IC28			TC74HC14AF	IC(SCHMIDT INVERTER)	T9E9K9	
IC28			TC74HC14AF	IC(SCHMIDT INVERTER)	Y9M9M0	
IC29			N345256SOA-55	MEMORY IC	K5T5E5	
IC29			N345256SOA-55	MEMORY IC	M5M6	
IC29			N345256SOA-55	MEMORY IC	T9E9K9	
IC29			N345256SOA-55	MEMORY IC	Y9M9M0	
IC30			TC7SHU04FU	MOS-IC		
IC31		✻	TC9214AF	MOS-IC	C7M7	
IC32			TC7SHU04FU	MOS-IC		
IC33		✻	TC74VHC08FT	MOS-IC		
IC34			PST9128NR	ANALOGUE IC		
⚠ IC35			ICP-N20	ANALOGUE IC		
IC37			NJM4565M	IC(OP AMP X2)	T9E9K9	
IC37			NJM4565M	IC(OP AMP X2)	Y9M9M0	
⚠ Q1			2SD2012	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q3 ,4			2SC4081(R,S)	TRANSISTOR		
Q5			2SA1576A(R,S)	TRANSISTOR		
⚠ Q6			2SD2012	TRANSISTOR		
Q7			2SC1845(F,E)	TRANSISTOR		
Q8 ,9			2SC4081(R,S)	TRANSISTOR		
Q10			2SA1576A(R,S)	TRANSISTOR		
⚠ Q11			2SD2012	TRANSISTOR		
Q12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14			2SC4081(R,S)	TRANSISTOR		
Q15			2SA1576A(R,S)	TRANSISTOR		
⚠ Q16			2SC4596(E,F)	TRANSISTOR		
Q17			2SC2458(Y,GR)	TRANSISTOR		
Q17			2SC3311A(Q,R)	TRANSISTOR		
Q18 ,19			2SC4081(R,S)	TRANSISTOR		
Q20			2SK246(Y,GR)	FET		
⚠ Q21			2SB1375	TRANSISTOR		
Q22			2SC1845(F,E)	TRANSISTOR		
Q23			2SK246(Y,GR)	FET		
⚠ Q24			2SD2012	TRANSISTOR		
Q25			2SA992(F,E)	TRANSISTOR		
Q26			2SK246(Y,GR)	FET		
Q27			DTC124EUA	DIGITAL TRANSISTOR		
Q28 ,29			DTA114TUA	DIGITAL TRANSISTOR		
Q30			2SA1576A(R,S)	TRANSISTOR		
Q31			DTC124EUA	DIGITAL TRANSISTOR		
Q100,101			DTC124EUA	DIGITAL TRANSISTOR	T9E9K9	
Q100,101			DTC124EUA	DIGITAL TRANSISTOR	Y9M9M0	
Q102			2SA1576A(R,S)	TRANSISTOR	T9E9K9	
Q102			2SA1576A(R,S)	TRANSISTOR	Y9M9M0	
Q200,201			2SC2714(O,Y)	FET		
Q202,203			2SC4081(R,S)	TRANSISTOR		

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Q204,205			2SC2714(O,Y)	FET		
Q206			2SA1576A(R,S)	TRANSISTOR		
Q207,208			2SC4081(R,S)	TRANSISTOR		
Q209			2SC2714(O,Y)	FET		
Q210			2SC4081(R,S)	TRANSISTOR		
Q211			2SA1576A(R,S)	TRANSISTOR		
Q212,213			2SC4081(R,S)	TRANSISTOR		
Q217			2SA1576A(R,S)	TRANSISTOR	K5K9Y9	
Q218			2SC4081(R,S)	TRANSISTOR	K5K9Y9	
Q219,220			2SC2714(O,Y)	FET	K5K9Y9	
Q221			2SC4081(R,S)	TRANSISTOR	K5K9Y9	
Q222			2SA1576A(R,S)	TRANSISTOR	K5K9Y9	
Q223			2SC4081(R,S)	TRANSISTOR	K5K9Y9	
Q224,225			2SC2714(O,Y)	FET	K5K9Y9	
Q226			2SC4081(R,S)	TRANSISTOR	K5K9Y9	
Q227			2SA1576A(R,S)	TRANSISTOR	K5K9Y9	
Q228			2SC4081(R,S)	TRANSISTOR	K5K9Y9	
Q229-231			DTC124EUA	DIGITAL TRANSISTOR		
⚠ Q232			2SD2012	TRANSISTOR		
⚠ Q233			2SB1375	TRANSISTOR		
Q234,235			DTC124EUA	DIGITAL TRANSISTOR		
Q236,237			2SA1576A(R,S)	TRANSISTOR		
Q239,240			2SA1576A(R,S)	TRANSISTOR	K5K9Y9	
Q402-405			2SC4213(B)	TRANSISTOR		
Q406-417			2SC4213(B)	TRANSISTOR	E5C7M7	
Q406-417			2SC4213(B)	TRANSISTOR	M5M6T5	
Q406-417			2SC4213(B)	TRANSISTOR	T9E9	
Q406-417			2SC4213(B)	TRANSISTOR	Y9M9M0	
Q414-417			2SC4213(B)	TRANSISTOR	K9	
Q418-421			2SC4081(R,S)	TRANSISTOR	E5C7M7	
Q418-421			2SC4081(R,S)	TRANSISTOR	M5M6T5	
Q418-421			2SC4081(R,S)	TRANSISTOR	T9E9	
Q418-421			2SC4081(R,S)	TRANSISTOR	Y9M9M0	
Q422,423			2SC4213(B)	TRANSISTOR	C7M7	
Q424,425			2SC4213(B)	TRANSISTOR		
Q426-429			2SC4213(B)	TRANSISTOR	E5C7M7	
Q426-429			2SC4213(B)	TRANSISTOR	M5M6T5	
Q426-429			2SC4213(B)	TRANSISTOR	T9E9	
Q426-429			2SC4213(B)	TRANSISTOR	Y9M9M0	
Q430			DTC124EUA	DIGITAL TRANSISTOR	C7M7	
Q431			DTA124EUA	DIGITAL TRANSISTOR	C7M7	
Q432,433			2SC4213(B)	TRANSISTOR	C7M7	
Q434			DTC124EUA	DIGITAL TRANSISTOR		
Q435			2SA1576A(R,S)	TRANSISTOR		
Q436			DTC124EUA	DIGITAL TRANSISTOR	E5C7M7	
Q436			DTC124EUA	DIGITAL TRANSISTOR	M5M6T5	
Q436			DTC124EUA	DIGITAL TRANSISTOR	T9E9	
Q436			DTC124EUA	DIGITAL TRANSISTOR	Y9M9M0	
Q437			DTC124EUA	DIGITAL TRANSISTOR	K5K9	
Q438			DTC124EUA	DIGITAL TRANSISTOR	E5C7M7	
Q438			DTC124EUA	DIGITAL TRANSISTOR	M5M6T5	
Q438			DTC124EUA	DIGITAL TRANSISTOR	T9E9	
Q438			DTC124EUA	DIGITAL TRANSISTOR	Y9M9M0	
Q439			DTA124EUA	DIGITAL TRANSISTOR		
Q440			DTA124EUA	DIGITAL TRANSISTOR	E5C7M7	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
Q440			DTA124EUA	DIGITAL TRANSISTOR				M5M6T5	
Q440			DTA124EUA	DIGITAL TRANSISTOR				T9E9	
Q440			DTA124EUA	DIGITAL TRANSISTOR				Y9M9M0	
Q500			DTC124EUA	DIGITAL TRANSISTOR					
Q600			2SA1611(M5,M6)	TRANSISTOR					
Q601			2SC4177(L5,L6)	TRANSISTOR					
A1			W02-1114-05	OSCILLATING MODULE				T9E9K9	
A1			W02-1114-05	OSCILLATING MODULE				Y9M9M0	
PROCESSOR (X32-3670-00) DVF-9010									
C1			CC73FSL1H100D	CHIP C	10PF	D			
C2			CK73FB1H103K	CHIP C	0.010UF	K			
C4			CE04KW1A101M	ELECTRO	100UF	10WV			
C5			CK73FB1H103K	CHIP C	0.010UF	K			
C7			CE04KW1A101M	ELECTRO	100UF	10WV			
C9			CK73FB1H103K	CHIP C	0.010UF	K			
C11			CE04KW1C100M	ELECTRO	10UF	16WV			
C12			CE04KW1A331M	ELECTRO	330UF	10WV			
C14		✻	C90-3816-05	ELECTRO	10UF	35WV			
C15 -17			CC73FSL1H101J	CHIP C	100PF	J			
C18			CC73FSL1H100D	CHIP C	10PF	D			
C23			CE04KW1A101M	ELECTRO	100UF	10WV			
C25			CK73FB1H103K	CHIP C	0.010UF	K			
C27			CE04KW1C100M	ELECTRO	10UF	16WV			
C28			CE04KW1A331M	ELECTRO	330UF	10WV			
C30		✻	C90-3816-05	ELECTRO	10UF	35WV			
C33 -35			CC73FSL1H100D	CHIP C	10PF	D			
C50 -53			CQ93FMG1H102J	MYLAR	1000PF	J			
C54			CQ93FMG1H103J	MYLAR	0.010UF	J			
C56 ,57			CQ93FMG1H393J	MYLAR	0.039UF	J			
C58 ,59			CQ93FMG1H392J	MYLAR	3900PF	J			
C61			CC45FSL1H101J	CERAMIC	100PF	J			
C62 ,63			CE04KW1V470M	ELECTRO	47UF	35WV			
C65 ,66			CC45FSL1H101J	CERAMIC	100PF	J			
C67 ,68			CC45FSL1H561J	CERAMIC	560PF	J			
C69 -72			CC73FSL1H101J	CHIP C	100PF	J			
CN1			E40-4740-05	SOCKET FOR PIN ASSY					
CN2			E40-4743-05	SOCKET FOR PIN ASSY					
E1			J11-0809-05	WIRE CLAMPER					
R1			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R2			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A101J	CHIP R	100	J	1/10W		
R6 -9			RK73FB2A101J	CHIP R	100	J	1/10W		
R10			RD14NB2E3R9J	RD	3.9	J	1/4W		
R11			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R12			RD14NB2E2R2J	RD	2.2	J	1/4W		
R13 -15			RK73FB2A101J	CHIP R	100	J	1/10W		
R16			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R17 -19			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R22			RD14NB2E2R2J	RD	2.2	J	1/4W		
R23 -25			RK73FB2A101J	CHIP R	100	J	1/10W		
R26			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R27			RK73FB2A103J	CHIP R	10K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R28			RD14NB2E1R5J	RD	1.5	J	1/4W		
R32			RD14NB2E1R5J	RD	1.5	J	1/4W		
R50 ,51			RN14BK2C4221F	RN	4.22K	F	1/6W		
R54 -57			RN14BK2C4221F	RN	4.22K	F	1/6W		
R60 ,61			RN14BK2C4221F	RN	4.22K	F	1/6W		
R62 -65			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R66 ,67			RK73FB2A470J	CHIP R	47	J	1/10W		
R68 -73			RK73FB2A221J	CHIP R	220	J	1/10W		
R74 ,75			RK73FB2A470J	CHIP R	47	J	1/10W		
R76 ,77			RK73FB2A473J	CHIP R	47K	J	1/10W		
R80 -82			RK73FB2A101J	CHIP R	100	J	1/10W		
D2			DAP202U	DIODE					
IC1			TC74VHCU04F	MOS-IC					
IC2			KAN06	MOS-IC					
IC3			AD1855	MOS-IC					
IC5			AD1855	MOS-IC					
IC6 ,7			NJM4580E	ANALOGUE IC					
IC8			TC74HCT7007AFE	MOS-IC					
Q2			DTC124EUA	DIGITAL TRANSISTOR					
Q2			UN5212	DIGITAL TRANSISTOR					
POWERSUPPLY (W02-2660-05/W02-2661-05/W02-2662-05)									
C201			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C211		✻	C90-3817-08	ELECTRO	180UF	35WV			
C213,214			CE04KW1V331M	ELECTRO	330UF	35WV			
C221		✻	C90-3817-08	ELECTRO	180UF	35WV			
C223,224			CE04KW1V331M	ELECTRO	330UF	35WV			
C311		✻	C90-3819-08	ELECTRO	330UF	35WV			
C312			CE04KW1V331M	ELECTRO	330UF	35WV			
C351			CE04KW1V101M	ELECTRO	100UF	35WV			
C352,353		✻	C91-1586-08	FILE	0.01UF	J			
C411		✻	C90-3819-08	ELECTRO	330UF	35WV			
C412		✻	C90-3818-08	ELECTRO	100UF	35WV			
C511		✻	C90-3820-08	ELECTRO	560UF	35WV			
C512			CE04KW1V331M	ELECTRO	330UF	35WV			
C611,612		✻	C91-1586-08	FILE	0.01UF	J			
C711			CE04KW1H470M	ELECTRO	47UF	50WV			
C811			CE04KW1V331M	ELECTRO	330UF	35WV			
C812		✻	C90-3818-08	ELECTRO	100UF	35WV			
CN201			E40-3256-05	PIN ASSY					
CN202			E40-3246-05	PIN ASSY					
⚠ F101		✻	F05-0144-08	FUSE					
L311		✻	L33-0582-08	CHOKE COIL					
L411		✻	L33-0582-08	CHOKE COIL					
L511		✻	L33-0583-08	CHOKE COIL					
L811		✻	L33-0582-08	CHOKE COIL					
T351		✻	L19-0090-08	CONVERTER TRANSFORMER					
P211		✻	R92-1888-08	METAL PLATE					
P221		✻	R92-1888-08	METAL PLATE					
R201		✻	R92-1889-08	RD	100	J	1/4W		
R202		✻	R92-1890-08	RD	1K	J	1/4W		
R204		✻	R92-1891-08	RN	3.3K	F	1/6W		
R205		✻	R92-1892-08	RN	82	F	1/6W		

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R206		✻	R92-1893-08	RN 1.5K F 1/6W		
R211		✻	R92-1894-08	RD 560 J 1/4W		
R212,222		✻	R92-1895-08	RD 4.7K J 1/4W		
R221		✻	R92-1894-08	RD 560 J 1/4W		
R351		✻	R92-1896-08	RD 2.7 J 1/4W		
R352		✻	R92-1897-08	RD 10K J 1/4W		
R353		✻	R92-1898-08	RD 1.2K J 1/4W		
R355		✻	R92-1889-08	RD 100 J 1/4W		
R356,357		✻	R92-1890-08	RD 1K J 1/4W		
R611		✻	R92-1899-08	RD 15 J 1/4W		
R711		✻	R92-1897-08	RD 10K J 1/4W		
⚠ SW101		✻	S68-0122-08	PUSH SWITCH POWER		
D211			11EQS10	DIODE		
D221			11EQS10	DIODE		
D231		✻	MTZJ5.6C	ZENER DIODE		
D232			MTZJ30C	ZENER DIODE		
D311			S2L20U	DIODE		
D321			MTZJ15B	ZENER DIODE		
D353		✻	MTZJ39B	ZENER DIODE		
D411		✻	21DQ06	DIODE		
D511			D3S4M	DIODE		
D611			1SS270A	DIODE		
D711			10ELS2	DIODE		
D712		✻	MTZJ12A	ZENER DIODE		
D811		✻	21DQ06	DIODE		
Q211		✻	2SB1566	TRANSISTOR		
Q212			2SC1740S	TRANSISTOR		
Q221		✻	2SD2395	TRANSISTOR		
Q222			2SA933S	TRANSISTOR		
Q351		✻	2SD2395	TRANSISTOR		
Q352			DTC114ES	TRANSISTOR		
Q353			2SA933S	TRANSISTOR		
DVD MECHANISM (D40-1580-05)						
41	1A		J99-0806-08	TRAY		
42	1B		J19-5924-08	CLAMPER HOLDER		
43	1B		A11-1142-08	CLAMPER PLATE		
44	1B		T50-1080-08	CLAMPER REAR YOKE		
45	1B		T99-0610-08	MAGNET		
46	2B		J11-0834-08	CLAMPER		
47	2B		G02-1655-08	SPRING		
48	2A		D16-0722-08	BELT		
49	2A		D13-1876-08	PULLEY GEAR		
50	2B		D13-1877-08	TRAY GEAR		
51	2A		D13-1878-08	TURNING GEAR		
52	2B		D12-0159-08	ROTARY CAM		
53	2A,2B		D32-0355-08	CHASSIS STOPPER		
54	2A,2B		G02-1656-08	CHASSIS HOLDER		
55	2B		D10-3805-08	SLIDER		
56	3A		D10-3806-08	SWITCH LEVER		
57	3A		T42-0915-08	LOADING MOTOR UNIT		
58	3B		A10-3430-08	LOADING BASE		
59	3B		J70-1226-08	LOADING MOTOR PCB		
60	1B		N19-1457-08	CLAMPER WEIGHT		

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61	2B		D40-1595-08	TRAVERSE UNIT		
71	1C		E35-2160-08	PIN CABLE,11P		
72	1C		J70-1227-08	REPEATER PCB		
73	1D		A10-3431-08	D-CHASSIS UNIT		
74	2C		J19-5925-08	CLAMPER		
75	2C,2D		J02-1413-08	DAMPER		
76	2C		J19-5926-08	DAMPER HOLDER		
77	2C		T42-0916-08	TRAVERSE MOTOR UNIT,FEED		
78	2C		J21-6618-08	MAIN SHAFT HOLDER		
79	3C		T42-0917-08	DISC MOTOR UNIT		
80	3C		J26-0082-08	CHIP SWITCH UNIT		
81	2D		J21-6619-08	SUB SHAFT HOLDER		
82	2D,3D		D10-3807-08	GUIDE SHAFT		
83	2D		J21-6620-08	NUT STOPPER		
84	2D		G02-1657-08	NUT STOP SPRING		
85	2D		D13-1879-08	SCREW NUT		
86	2D		G02-1658-08	PICKUP STOP SPRING		
⚠ 87	3D		T25-0077-08	PICKUP		
89	3D		A11-1143-08	H-CHASSIS		
B41	1B		N80-2608-46	SCREW		
B42	1B		N09-3455-08	SCREW		
B43	3A		N09-3456-08	SCREW		
B44	3B		N80-2608-46	SCREW		
B45	1B		N88-2606-46	SCREW		
B71	1C		N86-2605-08	SCREW		
B72	1C		N09-3457-08	SCREW		
B73	2C		N09-3458-08	SCREW		
B74	2C		N09-3459-08	SCREW		
B75	2C		N95-2610-45	SCREW		
B76	2C		N09-3460-08	SCREW		
B77	2D		N09-3461-08	SCREW		
B78	2D		N30-2003-46	SCREW		
B79	2D		N39-1745-46	SCREW		
B80	2D		N09-3462-08	SCREW		
W41	2A		N19-0891-04	CUT WASHER		
FP20001			E40-8270-08	FLAT CABLE CONNECTOR,26P		
FP20002			E40-8271-08	FLAT CABLE CONNECTOR,35P		
FP20003			E40-8272-08	FLAT CABLE CONNECTOR,11P		
FP20004,5			E40-8269-08	PIN ASSY,2P		
C0002			CK73FF1C105Z	CHIP C 1.0UF Z		

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HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
DV-203	-	-	-	-	-	-	-	-	-
DV-2070	-	-	-	-	-	-	-	-	-
DVF-5010	-	-	-	-	T5	E5	-	-	-
DVF-K7010	-	-	-	C7	-	-	-	-	-
DVF-9010	-	-	-	-	T9	E9	-	-	-

MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	Other area(M2)
DV-203	-	-	-	-	-	-	K5	-	-
DV-2070	-	-	-	-	-	-	K9	-	-
DVF-5010	-	-	-	-	-	-	-	M5	M6
DVF-K7010	-	-	-	-	-	-	-	M7	-
DVF-9010	-	-	Y9	-	-	-	-	M9	M0

SPECIFICATIONS

DV-203

[Type]

System ..... DVD video player system
Signal read system ..... Semiconductor laser

[D/A Conversion Section]

D/A conversion ..... 24 Bit
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)
4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz (CD only) ..... 2 Hz ~ 20 kHz
Sampling frequency; 48 kHz ..... 2 Hz ~ 22 kHz
Sampling frequency; 96 kHz ..... 2 Hz ~ 44 kHz
Signal to noise ratio (CD only) ..... More than 110 dB
Dynamic range (CD only) ..... More than 97 dB
Total harmonic distortion (CD only)
..... Less than 0.003 % (1 kHz)
Channel separation (CD only)
..... More than 90 dB (1 kHz, MIX LINE OUTPUT)
Wow and flutter (CD only)
..... Below measurable limit (±0.001 % W. PEAK)
Analog output level/impedance
2ch ..... 2 V_{rms} / 510 Ω
Digital output level/impedance
COAXIAL ..... 0.5 Vp-p / 75 Ω
OPTICAL ..... -21 dBm ~ -15 dBm (Wave length 660 nm)

[Video Section]

Video output format ..... NTSC
Video compression
VCD MPEG-1
DVD MPEG-2
Composite video output level
..... 1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) ..... 1 Vp-p (75 Ω load, sync. negative)
(C-signal)
NTSC ..... 0.286 Vp-p (75 Ω)
Component video output level
Y-signal ..... 1 Vp-p (75 Ω load, sync. negative)
C_B-signal ..... ±0.324 Vp-p (75 Ω) (FCC 100% Color Bar)
C_R-signal ..... ±0.324 Vp-p (75 Ω) (FCC 100% Color Bar)
Horizontal resolution ..... More than 500 lines
Video signal to noise ratio ..... More than 65 dB

[General]

Power consumption ..... 35 W
Dimensions ..... W:440 mm (17-5/16")
H: 93 mm (3-11/16")
D: 390 mm (15-3/8")
Weight (net) ..... 4.5 kg (9.9 lb)

DVF-5010

[Type]

System ..... DVD video player system
Signal read system ..... Semiconductor laser

[D/A Conversion Section]

D/A conversion ..... 24 Bit
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)
4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz (CD only) ..... 2 Hz ~ 20 kHz
Sampling frequency; 48 kHz ..... 2 Hz ~ 22 kHz
Sampling frequency; 96 kHz ..... 2 Hz ~ 44 kHz
Signal to noise ratio (CD only) ..... More than 110 dB
Dynamic range (CD only) ..... More than 97 dB
Total harmonic distortion (CD only)
..... Less than 0.003 % (1 kHz)
Channel separation (CD only)
..... More than 90 dB (1 kHz, MIX LINE OUTPUT)
Wow and flutter (CD only)
..... Below measurable limit (±0.001 % W. PEAK)
Analog output level/impedance
2ch ..... 2 V_{rms} / 510 Ω
5.1ch ..... 2 V_{rms} / 510 Ω (compression off:max 5.6 V)
Digital output level/impedance
COAXIAL ..... 0.5 Vp-p / 75 Ω
OPTICAL ..... -21 dBm ~ -15 dBm (Wave length 660 nm)

[Video Section]

Video output format ..... NTSC/PAL
Video compression
VCD MPEG-1
DVD MPEG-2
Composite video output level
..... 1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) ..... 1 Vp-p (75 Ω load, sync. negative)
(C-signal)
NTSC ..... 0.286 Vp-p (75 Ω)
PAL ..... 0.300 Vp-p (75 Ω)
Horizontal resolution ..... More than 500 lines
Video signal to noise ratio ..... More than 65 dB

[General]

Power consumption ..... 35 W
Dimensions ..... W:440 mm (17-5/16")
H: 93 mm (3-11/16")
D: 390 mm (15-3/8")
Weight (net) ..... 4.5 kg (9.9 lb)

SPECIFICATIONS

DV-2070

[Type]

System ..... DVD video player system
Signal read system ..... Semiconductor laser

[D/A Conversion Section]

D/A conversion ..... 24 Bit
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)
4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz (CD only) ..... 2 Hz ~ 20 kHz
Sampling frequency; 48 kHz ..... 2 Hz ~ 22 kHz
Sampling frequency; 96 kHz ..... 2 Hz ~ 44 kHz
Signal to noise ratio (CD only) ..... More than 113 dB
Dynamic range (CD only) ..... More than 97 dB
Total harmonic distortion (CD only)
..... Less than 0.003 % (1 kHz)
Channel separation (CD only)
..... More than 90 dB (1 kHz, MIX LINE OUTPUT)
Wow and flutter (CD only)
..... Below measurable limit (±0.001 % W. PEAK)
Analog output level/impedance
2ch ..... 2 V_{rms} / 510 Ω
Digital output level/impedance
COAXIAL ..... 0.5 Vp-p / 75 Ω
OPTICAL ..... -21 dBm ~ -15 dBm (Wave length 660 nm)
Headphone output ..... 20 mW / 32 Ω load (Phones level MAX)

[Video Section]

Video output format ..... NTSC
Video compression
VCD MPEG-1
DVD MPEG-2
Composite video output level
..... 1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) ..... 1 Vp-p (75 Ω load, sync. negative)
(C-signal)
NTSC ..... 0.286 Vp-p (75 Ω)
Component video output level
Y-signal ..... 1 Vp-p (75 Ω load, sync. negative)
C_B-signal ..... ±0.324 Vp-p (75 Ω) (FCC 100% Color Bar)
C_R-signal ..... ±0.324 Vp-p (75 Ω) (FCC 100% Color Bar)
Horizontal resolution ..... More than 500 lines
Video signal to noise ratio ..... More than 65 dB

[General]

Power consumption ..... 35 W
Dimensions ..... W:440 mm (17-5/16")
H: 128 mm (5-1/16")
D: 384 mm (15-1/8")
Weight (net) ..... 6.1 kg (13.4 lb)

DVF-9010

[Type]

System ..... DVD video player system
Signal read system ..... Semiconductor laser

[D/A Conversion Section]

D/A conversion ..... 24 Bit
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)
4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz (CD only) ..... 2 Hz ~ 20 kHz
Sampling frequency; 48 kHz ..... 2 Hz ~ 22 kHz
Sampling frequency; 96 kHz ..... 2 Hz ~ 44 kHz
Signal to noise ratio (CD only) ..... More than 115 dB
Dynamic range (CD only) ..... More than 100 dB
Total harmonic distortion (CD only)
..... Less than 0.002 % (1 kHz)
Channel separation (CD only)
..... More than 95 dB (1 kHz, MIX LINE OUTPUT)
Wow and flutter (CD only)
..... Below measurable limit (±0.001 % W. PEAK)
Analog output level/impedance
2ch ..... 2 V_{rms} / 510 Ω
5.1ch ..... 2 V_{rms} / 510 Ω (compression off:max 5.6 V)
Digital output level/impedance
COAXIAL ..... 0.5 Vp-p / 75 Ω
OPTICAL ..... -21 dBm ~ -15 dBm (Wave length 660 nm)
Headphone output ..... 20 mW / 32 Ω load (Phones level MAX)

[Video Section]

Video output format ..... NTSC/PAL
Video compression
VCD MPEG-1
DVD MPEG-2
Composite video output level
..... 1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) ..... 1 Vp-p (75 Ω load, sync. negative)
(C-signal)
NTSC ..... 0.286 Vp-p (75 Ω)
PAL ..... 0.300 Vp-p (75 Ω)
Horizontal resolution ..... More than 500 lines
Video signal to noise ratio ..... More than 65 dB

[General]

Power consumption ..... 35 W
Dimensions ..... W:440 mm (17-5/16")
H: 128 mm (5-1/16")
D: 384 mm (15-1/8")
Weight (net) ..... 6.1 kg (13.4 lb)

SPECIFICATIONS

DVF-K7010

[Type]

System.....DVD video player system
Signal read system.....Semiconductor laser

[D/A Conversion Section]

D/A conversion..... 24 Bit
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)
4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz (CD only) ..... 4 Hz ~ 20 kHz
Sampling frequency; 48 kHz .....4 Hz ~ 22 kHz
Sampling frequency; 96 kHz .....4 Hz ~ 44 kHz
Signal to noise ratio (CD only) .....More than 110 dB
Dynamic range (CD only) .....More than 97 dB
Total harmonic distortion (CD only)
.....Less than 0.003 % (1 kHz)
Channel separation (CD only)
.....More than 90 dB (1 kHz, MIX LINE OUTPUT)
Wow and flutter (CD only)
.....Below measurable limit (±0.001 % W. PEAK)
Analog output level/impedance
2ch.....2 V_{rms} / 510 Ω (mic on:1.2 V / 315 Ω)
5.1ch..... 2 V_{rms} / 510 Ω (compression off:max 5.6 V)
Digital output level/impedance
COAXIAL..... 0.5 Vp-p / 75 Ω
OPTICAL.....-21 dBm ~ -15 dBm (Wave length 660 nm)
Microphone Input sensitivity/impedance
.....6 mV / 24 kΩ (MIC 1, 2)

[Video Section]

Video output format ..... NTSC/PAL
Video compression
VCD.....MPEG-1
DVD MPEG-2
Composite video output level
.....1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) .....1 Vp-p (75 Ω load, sync. negative)
(C-signal)
NTSC .....0.286 Vp-p (75 Ω)
PAL .....0.300 Vp-p (75 Ω)
Horizontal resolution ..... More than 500 lines
Video signal to noise ratio .....More than 65 dB

[General]

Power consumption ..... 35 W
Dimensions .....W:440 mm (17-5/16")
H: 93 mm (3-11/16")
D: 390 mm (15-3/8")
Weight (net) .....4.5 kg (9.9 lb)

Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (Where water freezes).

DV-203/2070/DVF-5010/9010/K7010

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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